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(54) Title: POLYMORPHISMS AND NEW GENES IN THE REGION OF THE HUMAN HEMOCHROMATOSIS GENE (57) Abstract <p>Polymorphic sites in the region surrounding the HFE gene are provided. These polymorphisms are useful as surrogate markers in diagnostic assays for hemochromatosis. Additionally, a fine structure map of the 1 megabase region surrounding the HFE gene is provided, along with 235 kb of DNA sequence and 8 loci corresponding to candidate genes within the 1 megabase region, and in the purification of related proteins.</p>		

Polymorphisms and New Genes in the Region of the Human Hemochromatosis Gene

BACKGROUND OF THE INVENTION

Hereditary hemochromatosis (HH) is an inherited disorder of iron metabolism wherein the body accumulates excess iron. In symptomatic individuals, this excess iron leads to deleterious effects by being deposited in a variety of organs leading to their failure, and resulting in cirrhosis, diabetes, sterility, and other serious illnesses. The gene which is defective in this disease was disclosed in copending U.S.S.N. 08/652,265.

Fine structure mapping of the region to which the gene responsible for HH, HFE (denoted HH or HFE in some publications), was mapped makes possible the identification of candidate sequences comprising the HFE gene, along with structural elements for regulation and expression and neighboring genes.

A variety of techniques is available for fine structure mapping, including direct cDNA selection, exon-trapping, and genomic sample sequencing. The direct selection approach (Lovett *et al.* Proc. Natl. Acad. Sci. U.S.A. 88:9628-9623 (1991)) involves the hybridization of cDNA fragments to genomic DNA. This technique is extremely sensitive and capable of isolating portions of rare transcripts. Exon-trapping (Church *et al.* Nature Genetics 6:98-105 (1994)) recovers spliced introns from *in vivo* expressed genomic DNA clones and produces candidate exons without requiring any prior knowledge of the target's gene expression. High-throughput genomic DNA sequencing with comparison of the sequence data to databases of expressed sequences has also been used, such as in the positional cloning of the Werner syndrome gene (Yu *et al.* Science 277:258-262 (1996)) and in cloning by homology of the second Alzheimer's disease gene on chromosome 1 (Levy-Lahad *et al.* Science 269:973-977 (1995)).

HH is typically inherited as a recessive trait; in the current state of knowledge, homozygotes carrying two defective copies of the gene are most frequently affected by the disease. In addition, heterozygotes for the HFE gene are more susceptible to sporadic porphyrina cutanea tarda and potentially other disorders (Roberts *et al.*, Lancet 349:321-323 (1997)). It is estimated that approximately 10-15% of Caucasians carry one copy of the HFE gene mutation and that there are about one million homozygotes in the United States. HH, thus, represents one of the most common genetic disease mutations in Caucasian individuals. Although ultimately HH produces debilitating symptoms, the majority of homozygotes and heterozygotes have not been diagnosed.

The need for such diagnostics is documented, for example, in Barton, J.C. *et al.* Nature Medicine 2:394-395 (1996); Finch, C.A. West J Med 153:323-325 (1990); McCusick, V. Mendelian Inheritance in Man pp. 1882-1887, 11th ed., (Johns Hopkins University Press, Baltimore (1994)); Report of a Joint World Health Organization/Hemochromatosis Foundation/French Hemochromatosis Association Meeting on the Prevention and Control of Hemochromatosis (1993); Edwards, C.Q. *et al.* New Engl J Med 328:1616-1620 (1993); Bacon, B.R. New Engl J Med 326:126-

SUMMARY OF THE INVENTION

One aspect of the invention is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1.

Another aspect of the invention is an oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1.

Another aspect of the invention is an isolated nucleic acid molecule comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic site of Table 1.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising: providing DNA or RNA from the individual; and assessing the DNA or RNA for the presence or absence of a haplotype of Table 1.

wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a method to determine the presence or absence of the common hereditary hemochromatosis (HFE) gene mutation in an individual comprising: providing DNA or RNA from the individual; and assessing the DNA or RNA for the presence or absence of a genotype defined by a polymorphic allele of Table 1.

wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

Another aspect of the invention is a culture of lymphoblastoid cells having the designation ATCC CRL-12371.

One aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF1.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF2.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF3.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF4.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to BTF5.

A further aspect of the invention is an isolated nucleic acid sequence comprising a nucleic acid sequence substantially identical to NPT3.

alignment represent amino acids conserved in all 6 proteins; the "dots" represent conserved amino acids substitutions. Boxed are the regions within the proteins which correspond to three conserved motifs: 1) the B-G domain, 2) the transmembrane domain (TM), and 3) the B30-2 exon domain.

Figure 4, panel (A) depicts a Northern blot analysis of representative members of the two groups of BTF proteins, BTF1 and BTF5. BTF1 hybridized to all tissues on the blot as a major transcript at 2.9 kb and a minor one at 5.0 kb. BTF5 hybridized to several transcripts ranging between 4.0 and 3.1 kb and as a similar expression profile to BTF1. Autoradiography was for 24 hours. The β -actin hybridization demonstrated the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. In panel (B), RT-PCR analysis demonstrated that the expression of both genes was widespread. Included in the (+) lane are cDNA 21 and 44 as positive controls; the (-) lane represents the no-DNA control. Amplification using primers for the RFP gene (Isomura *et al.* Nucleic Acid Res. 20:5305-5310 (1992)) controlled for the integrity of the cDNA. All first strand cDNAs were checked for contaminating genomic DNA amplification by carrying out an identical experiment excluding the reverse transcriptase. In all cases, no amplification was obtained (data not shown).

Figure 5(A) depicts an alignment of the predicted amino acid sequence of the RoRet gene to the 52 kD Ro/SSA auto-antigen protein. The asterisks under the alignment represent conserved amino acids; the "dots" represent conserved amino acids substitutions. The putative DNA binding cysteine-rich domain and the B30-2 exon domain are boxed. Figure 5(B) depicts an alignment of the predicted amino acid sequence of the two novel putative sodium phosphate transport proteins to that of the NPT1.

Figure 6, panel (A) depicts a Northern blot analysis of the RoRet gene. The RoRet cDNA hybridized to 4 different transcripts, ranging from 7.1 kb to 2.2 kb. Autoradiography was performed for 4 days. The re-hybridization of the blot with a β -actin probe showed the variation in poly (A)+ RNA between the lanes. Autoradiography was for 1 hour. Panel (B) depicts RT-PCR analysis of the RoRet gene. Included in the (+) lane was a cDNA 27 positive control. Weak amplification of the correct size was observed in the small intestine, kidney and liver. The other tissues were negative as was the no DNA control lane (-). The RFP primers demonstrated the integrity of the cDNA. Panel (C) depicts Northern blot analysis of NPT3 and NPT4. NPT3 was expressed at high abundance in the heart and muscle as a single 7.2 kb transcript. Lesser amounts were found in the other tissues. The expression pattern of NPT4 was more restricted, being found only in the liver and kidney as a smear of transcripts ranging from 2.8 to 1.7 kb. Panel (D) depicts RT-PCR analysis of the NPT3 and NPT4 genes. Included in the (+) lane were the respective cDNA22E and 22B positive controls. The NPT3 gene was expressed as the proper size PCR fragment in kidney, liver, spleen and testis. A smaller fragment was detected in all tissues with the exception of the liver. The no DNA control lane (-) was negative. NPT4 was expressed as the proper size fragment in the small intestine, kidney, liver and testis. Larger and smaller size fragments were found in all other tissues with the exception of the brain. For both genes these different size fragments may indicate alternative splice events. The no DNA control lane (-) was negative. The RFP primers demonstrated the integrity of the cDNA.

Figure 7 depicts the sequences of cDNA 21 (BTF1), cDNA 29 (BTF3), cDNA 23 (BTF4), cDNA 44 (BTF5), cDNA 32 (BTF2), cDNA 27 (RoRet), cDNA 22B (NPT3), cDNA22E (NPT4).

discussions of nucleic acid probe design and annealing conditions, see, for example, Sambrook et al., *Molecular Cloning: a Laboratory Manual* (2nd ed.), Vols. 1-3, Cold Spring Harbor Laboratory, (1989) or *Current Protocols in Molecular Biology*, F. Ausubel et al., ed. Greene Publishing and Wiley-Interscience, New York (1987).

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The phrase "nucleic acid sequence encoding" refers to a nucleic acid which directs the expression of a specific protein or peptide. The nucleic acid sequences include both the DNA strand and sequence that is transcribed into RNA and the RNA sequence that is translated into protein. The nucleic acid sequences include both the full length nucleic acid sequences as well as non-full length sequences derived from the full length protein. It being further understood that the sequence includes the degenerate codons of the native sequence or sequences which may be introduced to provide codon preference in a specific host cell.

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The phrase "isolated" or "substantially pure" refers to nucleic acid preparations that lack at least one protein or nucleic acid normally associated with the nucleic acid in a host cell. The phrase "expression cassette", refers to nucleotide sequences which are capable of affecting expression of a structural gene in hosts compatible with such sequences. Such cassettes include at least promoters and optionally, transcription termination signals. Additional factors necessary or helpful in effecting expression may also be used as described herein.

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The term "operably linked" as used herein refers to linkage of a promoter upstream from a DNA sequence such that the promoter mediates transcription of the DNA sequence. The term "vector", refers to viral expression systems, autonomous self-replicating circular DNA (plasmids), and includes both expression and nonexpression plasmids. Where a recombinant microorganism or cell culture is described as hosting an "expression vector," this includes both extrachromosomal circular DNA and DNA that has been incorporated into the host chromosome(s). Where a vector is being maintained by a host cell, the vector may either be stably replicated by the cells during mitosis as an autonomous structure, or is incorporated within the host's genome.

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The term "gene" as used herein is intended to refer to a nucleic acid sequence which encodes a polypeptide. This definition includes various sequence polymorphisms, mutations, and/or sequence variants wherein such alterations do not affect the function of the gene product. The term "gene" is intended to include not only coding sequences but also regulatory regions such as promoters, enhancers, and termination regions. The term further includes all introns and other DNA sequences spliced from the mRNA transcript, along with variants resulting from alternative splice sites.

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The term "plasmid" refers to an autonomous circular DNA molecule capable of replication in a cell, and includes both the expression and nonexpression types. Where a recombinant microorganism or cell culture is described as hosting an "expression plasmid", this includes both extrachromosomal circular DNA molecules and DNA that has been incorporated into the host chromosome(s). Where a plasmid is being maintained by a host cell, the plasmid is either being stably replicated by the cells during mitosis as an autonomous structure or is incorporated within the host's genome.

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The phrase "substantially purified" or "isolated" when referring to a peptide or protein, means a chemical composition which is essentially free of other cellular components. It is preferably in a homogeneous state although it can be in either a dry or aqueous solution. Purity and homogeneity are typically determined using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography. A protein which is the predominant species present in a preparation is substantially purified. Generally, a substantially purified or isolated protein will comprise more than 80% of all macromolecular species present in the preparation. Preferably, the protein is purified to represent greater than 90% of all macromolecular species present. More preferably the protein is purified to greater than 95%, and most preferably the protein is purified to essential homogeneity, wherein other macromolecular species are not detected by conventional techniques.

The phrase "specifically binds to an antibody" or "specifically immunoreactive with", when referring to a protein or peptide, refers to a binding reaction which is determinative of the presence of the protein in the presence of a heterogeneous population of proteins and other biologics. Thus, under designated immunoassay conditions, the specified antibodies bind to a particular protein and do not bind in a significant amount to other proteins present in the sample. Specific binding to an antibody under such conditions may require an antibody that is selected for its specificity for a particular protein. A variety of immunoassay formats may be used to select antibodies specifically immunoreactive with a particular protein. For example, solid-phase ELISA immunoassays are routinely used to select monoclonal antibodies specifically immunoreactive with a protein. See Harlow and Lane (1988) Antibodies, a Laboratory Manual, Cold Spring Harbor Publications, New York, for a description of immunoassay formats and conditions that can be used to determine specific immunoreactivity.

As used herein, "EST" or "Expressed Sequence Tag" refers to a partial DNA or cDNA sequence of about 150 to 500, more preferably about 300, sequential nucleotides of a longer sequence obtained from a genomic or cDNA library prepared from a selected cell, cell type, tissue or tissue type, or organisms which longer sequence corresponds to an mRNA or a gene found in that library. An EST is generally DNA. One or more libraries made from a single tissue type typically provide at least 3000 different (i.e. unique) EST's and potentially the full complement of all possible EST's representing all possible cDNAs, e.g., 50,000 - 100,000 in an animal such as a human. (See, for example, Adams *et al.* Science 252:1651-1656 (1991)).

"Stringent" as used herein refers to hybridization and wash conditions of 50% formamide at 42°C. Other stringent hybridization conditions may also be selected. Generally, stringent conditions are selected to be about 5° C lower than the thermal melting point (T_m) for the specific sequence at a defined ionic strength and pH. The T_m is the temperature (under defined ionic strength and pH) at which 50% of the target sequence hybridizes to a perfectly matched probe. Typically, stringent conditions will be those in which the salt concentration is at least about 0.02 molar at pH 7 and the temperature is at least about 60°C. As other factors may significantly affect the stringency of hybridization, including, among others, base composition and size of the complementary strands, the presence of organic solvents and the extent of base mismatching, the combination of parameters is more important than the absolute measure of any one.

in the identification and isolation of further members of the gene family. Nucleic acid sequences substantially identical to the NPT1-like sequences and the proteins encoded by them are also included in the scope of this invention.

C. Polymorphic Markers

The invention provides 397 new polymorphic sites in the region of the HFE gene.

These polymorphisms are listed in Table 1. As described below, these polymorphisms were identified by comparison of the DNA sequence of an affected individual homozygous for the common ancestral HH mutation with that of an unaffected individual disclosed in copending U.S. 08/724,394.

Table 1. Polymorphic Sites in the HH Region

Base Location	Difference	Base Location	Difference
35-36	AC DEL	19755	G-A
841	T-C	19949	C-T
2662-2663	TT DEL	20085	C-T
3767	T-C	20366-20367	A INS
3829	C-G	20463	C-A
4925-4928	TAAA DEL	20841	A-T
5691	C-T	21059	A-T
5839	T-C	21117	A-G
6011	G-A	21837	A-C
6047	C-G	22293	A-C
6231	G-A	22786	C-A
6643	A DEL	23009	G-A
6698	T-C	24143	T-A
7186	T-C	26175	G-C
7273	G-A	26667	C-A
7545-7558	TCACACACCGATTGG DEL	26994	T-C
7672	G DEL	27838	G-T
7933	T-C	27861	T DEL
8746	T-G	28132	G-A
9115	G-A	29100	G-A
9823	G-A	29454-29457	TTTT DEL
10027	G-A	29787	T-G
10214	C-T	29825	A-C
10828	A-G	30009	T-C
10918	C-G	30177	A-G
10955	A-G	30400	A-G
11524	C-A	31059	T-A
11674	A-G	31280	C-T
11955	T-C	31749	C-T
12173-12175	TTT DEL	32040	C-G
13304	G-A	32556-32559	TGTG DEL
13455	G-A	33017	T-G
14416-14417	A INS	33026	T DEL
14998	C-T	34434	C-T
15564	T-C	35179	A-C
15887	A-G	35695	G-A
15904-15919	CCAAACTGATCTTTGA DEL	35702	G-A
16019	T DEL	35983	A-G
16211	A-T	37411	A-G
17461	A-G	38526	C-T

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	Base Locati n	Difference	Base L cation	Difference
	114250	A DEL	176222	T-C
	115217	C-G	176524	A-T
	117995	G-A	176684	G-A
5	118874	A-G	176815	T-C
	119470	T-C	177049	T-C
	119646	G-T	177065	G-T
	120853	C-T	178285	T-C
	121582	G-A	178551-178552	CTTTTTTTTTTTT INS
10	123576	A-C	179114-179115	A INS
	125581	C-T	179260	C-G
	125970	G-T	179281	C-G
	126197	A-G	180023	G-C
	126672	A DEL	180430	T-C
	126672	G-C	180773	T-C
15	128220-128221	A INS	180824	T-C
	132569	C-T	181097	C-T
	133572	A-C	181183	A-T
	134064	T-G	182351	C-T
20	136999	G-A	183197	G-A
	137784	C-T	183623	A-T
	138903	G-A	183653	G-T
	139159-139160	A INS	183657	T-G
	140359	G-A	183795-183796	A INS
	140898	C-T	184060	G-A
25	141313	C DEL	184993	G-A
	141343	T-C	185918	A-G
	142148	T-C	186036	T-C
	142178	C-A	186506-186507	TAAC INS
	142433-142434	ATAGA INS	186561-186568	TATTATT DEL
30	143783	C-T	186690	G DEL
	144090	C-T	186751	T-A
	144220-144221	A INS	187221	A-G
	144725	A-C	187260	A-G
	145732-145733	AAAAAAAAAAAAA INS	187444-187447	CTCT DEL
35	147016-147017	CG DEL	187831-187832	C INS
	147021	G-T	188638	G-A
	147536	T-G	188642	C-T
	148936	T-A	189246	T-C
40	149061	T-C	190340	A-C
	154341	A-T	190354	A-G
	154588	G-A	190762	A-G
	155464	G-A	191260	G-T
	158574	C-G	193018-193019	AGAT INS
45	160007	C-T	193147	T-G
	164348	A-T	193196-193197	C INS
	164499	C-G	193499	C-T
	166677-166678	AAAG INS	193738	C-G
	167389	G-A	193984-193985	ACACACAC INS
50	168506-168507	AGGATGGTCT INS	194064	C-G
	168515	T-C	194504	A DEL
	169413-169414	AA INS	194734	G-A
	170300-170301	TTGTTGTTGTTG INS	194890	A-C
	170491	G-A	195404	G-A
55	173428	T-C	195693	A-T
	173642	G-A	196205	G-A
	173948	T-G	197424	C-T
	175330	T-C	197513	C-T
	175836	T-C	197670	G-A
	176200	G-C	198055	C-A

SUBSTITUTE SHEET (RULE 26)

SUBSTITUTE SHEET (RULE 26)

L cation	Frequency of ancestral variant in rand m chromosomes	Frequency of unaffected variant in random chromos mes
219560	53%	47%
214977	65%	35%
214908	50%	50%
214795	24%	76%
214549	53%	47%
214192	65%	35%
210299	53%	47%
208862	80%	20%
208634	48%	52%
207400	25%	75%
205284	50%	50%
204341	53%	47%
202880	58%	42%
202662	98%	2%
200027	25%	75%
199030	58%	42%
198692	55%	45%
198401	55%	45%
198055	55%	45%
195693	60%	40%
195404	25%	75%
194890	55%	45%
175330	53%	47%
173948	83%	17%
173642	55%	45%
173428	80%	20%
168515	80%	20%
160007	18%	82%
149061	58%	42%
148936	82%	18%
147536	100%	0%
147021	46%	54%
141343	55%	45%
140359	55%	45%
138903	55%	45%
132569	81%	19%
125581	18%	82%
121582	80%	20%
120853	18%	82%
118874	85%	15%
115217	50%	50%
113130	40%	60%
113001	48%	52%
107858	48%	52%
103747	50%	50%
96315	25%	75%
91194	80%	20%
90088	75%	25%
89728	50%	50%
89645	50%	50%
88528	63%	37%
87892	75%	25%
87713	60%	40%
87655	50%	50%
86984	79%	21%
85705	50%	50%
85526	50%	50%

2:159; 68-1:167; 241-5:108; 241-29:113; 373-8:151; and 373-29:113, D6S258:199, D6S265:122, D6S105:124; D6S306:238; D6S464:206; and D6S1001:180.

Table 2 lists the frequency of about 100 of the alleles defined by the polymorphic sites of the invention in the general population. As is evident from the Table, certain of these alleles are present rarely in the general population. These polymorphisms are thus preferred as surrogate markers in diagnostic assays for the presence of a mutant HFE allele ("gene mutation") such as 24d1 or 24d2. Preferably, the frequency of the polymorphic allele used in the diagnostic assay in the general population is less than about 50%, more preferably less than about 25%, and most preferably less than about 5%. Thus, of the genotypes defined by the alleles listed in Table 2, polymorphisms occurring at base 35983 and base 61465 of Figure 1 are preferred.

It will be understood by those of skill in the art that because they were identified in an ancestral HH homozygote, the haplotypes defined by the polymorphic sites of Table 1 are predictive of the likely presence of the HFE gene mutation 24d1. Thus, for example, the likelihood of any affected individual having at least two or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual. Similarly, the likelihood of any affected individual having at least three or more of any of the polymorphic alleles defined by Table 1 is greater than that for any unaffected individual.

Thus, for example, in a diagnostic assay for the likely presence of the HFE gene mutation in the genome of the individual, DNA or RNA from the individual is assessed for the presence or absence of a haplotype of Table 1, wherein, as a result, the absence of a haplotype of Table 1 indicates the likely absence of the HFE gene mutation in the genome of the individual and the presence of the haplotype indicates the likely presence of the HFE gene mutation in the genome of the individual.

The markers defined by the polymorphic sites of Table 1 are additionally useful as markers for genetic analysis of the inheritance of certain HFE alleles and other genes which occur within the chromosomal region corresponding to the sequence of Figure 9 which include, for example, those disclosed in copending U.S.S.N. 08/724,394.

As the entire nucleotide sequence of the region is provided in Figure 9, it will be evident to those of ordinary skill in the art which sequences to use as primers or probes for detecting each polymorphism of interest. Thus, in some embodiments of the invention, the nucleotide sequences of the invention include at least one oligonucleotide pair selected from the sequence of Figure 9 or its complement for amplification of a polymorphic site of Table 1. Furthermore, in some embodiments of the invention a preferred hybridization probe is an oligonucleotide comprising at least 8 to about 100 consecutive bases from the sequence of Figure 9, or the complement of the sequence, wherein the at least 8 to about 100 consecutive bases includes at least one polymorphic site of Table 1. In some embodiments the polymorphic site is at base 35983 or base 61465.

It will also be appreciated that the nucleic acid sequences of the invention include isolated nucleic acid molecules comprising about 100 consecutive bases to about 235 kb substantially identical to the sequence of Figure 9, wherein the DNA molecule comprises at least one polymorphic

- 5:108; 241-29; 113; 373-8; 151; and 373-29; 113, alleles D6S258:199, D6S265:122, D6S105:124, D6S306:238, D6S464:206; and D6S1001:180, and/or alleles associated with the HHP-1, the HHP-19 or HHP-29 single base-pair polymorphisms can also be used to assist in the identification of an individual whose genome contains 24d1 and/or 24d2. For example, the assessing step can be performed by a process which comprises subjecting the DNA or RNA to amplification using oligonucleotide primers flanking a polymorphism of Table 1, and oligonucleotides flanking 24d1 and/or 24d2, oligonucleotide primers flanking at least one of the base-pair polymorphisms HHP-1, HHP-19, and HHP-29, oligonucleotide primers flanking at least one of the microsatellite repeat alleles, or oligonucleotide primers for any combination of polymorphisms or microsatellite repeat alleles thereof. Oligonucleotides useful in diagnostic assays are typically at least 8 consecutive nucleotides in length, and may range upwards of 18 nucleotides in length to greater than 100 or more consecutive nucleotides. Such oligonucleotides can be derived from either the genomic DNA of Figure 8 or 9, or cDNA sequences derived therefrom, or may be synthesized.
- Additionally, the proteins encoded by such cDNAs are useful in the generation of antibodies for analysis of gene expression and in diagnostic assays, and in the purification of related proteins.
- E. General Methods**
- The nucleic acid compositions of this invention, whether RNA, cDNA, genomic DNA, or a hybrid of the various combinations, may be isolated from natural sources, including cloned DNA, or may be synthesized *in vitro*. The nucleic acids claimed may be present in transformed or transfected whole cells, in a transformed or transfected cell lysate, or in a partially purified or substantially pure form.
- Techniques for nucleic acid manipulation of the nucleic acid sequences of the invention such as subcloning nucleic acid sequences encoding polypeptides into expression vectors, labeling probes, DNA hybridization, and the like are described generally in Sambrook *et al.*, *Molecular Cloning - a Laboratory Manual* (2nd Ed.), Vol. 1-3, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, (1989), which is incorporated herein by reference. This manual is hereinafter referred to as "Sambrook *et al.*"
- There are various methods of isolating the nucleic acid sequences of the invention. For example, DNA is isolated from a genomic or cDNA library using labeled oligonucleotide probes having sequences complementary to the sequences disclosed herein. Such probes can be used directly in hybridization assays. Alternatively probes can be designed for use in amplification techniques such as PCR.
- To prepare a cDNA library, mRNA is isolated from tissue such as heart or pancreas, preferably a tissue wherein expression of the gene or gene family is likely to occur. cDNA is prepared from the mRNA and ligated into a recombinant vector. The vector is transfected into a recombinant host for propagation, screening and cloning. Methods for making and screening cDNA libraries are well known. See Gubler, U. and Hoffman, B.J. *Gene* 25:263-269 (1983) and Sambrook *et al.* For a genomic library, for example, the DNA is extracted from tissue and either mechanically sheared or enzymatically digested to yield fragments of about 12-20 kb. The fragments

high level expression of a cloned gene, it is desirable to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. The expression vectors may also comprise generic expression cassettes containing at least one independent terminator sequence, sequences permitting replication of the plasmid in both eukaryotes and prokaryotes, *i.e.*, shuttle vectors, and selection markers for both prokaryotic and eukaryotic systems. See Sambrook *et al.* Examples of expression of ATP-sensitive potassium channel proteins in both prokaryotic and eukaryotic systems are described below.

a. **Expression in Prokaryotes**

A variety of prokaryotic expression systems may be used to express the proteins of the invention. Examples include *E. coli*, *Bacillus*, *Streptomyces*, and the like.

It is preferred to construct expression plasmids which contain, at the minimum, a strong promoter to direct transcription, a ribosome binding site for translational initiation, and a transcription/translation terminator. Examples of regulatory regions suitable for this purpose in *E. coli* are the promoter and operator region of the *E. coli* tryptophan biosynthetic pathway as described by Yanofsky, C., *J. Bacteriol.* 158:1018-1024 (1984) and the leftward promoter of phage lambda (P_{λ}) as described by Herskowitz, I. and Hagen, D., *Ann. Rev. Genet.* 14:399-445 (1980). The inclusion of selection markers in DNA vectors transformed in *E. coli* is also useful. Examples of such markers include genes specifying resistance to ampicillin, tetracycline, or chloramphenicol. See Sambrook *et al.* for details concerning selection markers for use in *E. coli*.

To enhance proper folding of the expressed recombinant protein, during purification from *E. coli*, the expressed protein may first be denatured and then renatured. This can be accomplished by solubilizing the bacterially produced proteins in a chaotropic agent such as guanidine HCl and reducing all the cysteine residues with a reducing agent such as beta-mercaptoethanol. The protein is then renatured, either by slow dialysis or by gel filtration. See U.S. Patent No. 4,511,503.

Detection of the expressed antigen is achieved by methods known in the art as radioimmunoassay, or Western blotting techniques or immunoprecipitation. Purification from *E. coli* can be achieved following procedures such as those described in U.S. Patent No. 4,511,503.

b. **Expression in Eukaryotes**

A variety of eukaryotic expression systems such as yeast, insect cell lines, bird, fish, and mammalian cells, are known to those of skill in the art. As explained briefly below, a sequence of interest may be expressed in these eukaryotic systems.

Synthesis of heterologous proteins in yeast is well known. Methods in Yeast Genetics, Sherman, F., *et al.*, Cold Spring Harbor Laboratory, (1982) is a well recognized work describing the various methods available to produce the protein in yeast.

Suitable vectors usually have expression control sequences, such as promoters, including 3-phosphoglycerate kinase or other glycolytic enzymes, and an origin of replication, termination sequences and the like as desired. For instance, suitable vectors are described in the literature (Botstein, *et al.*, *Gene* 8:17-24 (1979); Broach, *et al.*, *Gene* 8:121-133 (1979)).

Saveria-Campo, M., 1985, "Bovine Papilloma virus DNA a Eukaryotic Cloning Vector" in DNA Cloning Vol. II a Practical Approach Ed. D.M. Glover, IRL Press, Arlington, Virginia pp. 213-238.

The host cells are competent or rendered competent for transformation by various means. There are several well-known methods of introducing DNA into animal cells. These include: calcium phosphate precipitation, fusion of the recipient cells with bacterial protoplasts containing the DNA, treatment of the recipient cells with liposomes containing the DNA, DEAE dextran, electroporation and micro-injection of the DNA directly into the cells.

The transformed cells are cultured by means well known in the art (Biochemical Methods in Cell Culture and Virology, Kuchler, R.J., Dowden, Hutchinson and Ross, Inc., (1977)). The expressed polypeptides are isolated from cells grown as suspensions or as monolayers. The latter are recovered by well known mechanical, chemical or enzymatic means.

2. Purification

The proteins produced by recombinant DNA technology may be purified by standard techniques well known to those of skill in the art. Recombinantly produced proteins can be directly expressed or expressed as a fusion protein. The protein is then purified by a combination of cell lysis (e.g., sonication) and affinity chromatography. For fusion products, subsequent digestion of the fusion protein with an appropriate proteolytic enzyme releases the desired polypeptide.

The polypeptides of this invention may be purified to substantial purity by standard techniques well known in the art, including selective precipitation with such substances as ammonium sulfate, column chromatography, immunoprecipitation methods, and others. See, for instance, R. Scopes, Protein Purification. Principles and Practice, Springer-Verlag, New York (1982), incorporated herein by reference. For example, in an embodiment, antibodies may be raised to the proteins of the invention as described herein. Cell membranes are isolated from a cell line expressing the recombinant protein, the protein is extracted from the membranes and immunoprecipitated. The proteins may then be further purified by standard protein chemistry techniques as described above.

3. Antibodies

As mentioned above, antibodies can also be used for the screening of polypeptide products encoded by the polymorphic nucleic acids of the invention. In addition, antibodies are useful in a variety of other contexts in accordance with the present invention. Such antibodies can be utilized for the diagnosis of HH and, in certain applications, targeting of affected tissues.

Thus, in accordance with another aspect of the present invention a kit is provided that is suitable for use in screening and assaying for the presence of polypeptide products encoded by the polymorphic nucleic acids of the invention by an immunoassay through use of an antibody which specifically binds to polypeptide products encoded by the polymorphic nucleic acids of the invention in combination with a reagent for detecting the binding of the antibody to the gene product.

Once hybridoma cell lines are prepared, monoclonal antibodies can be made through conventional techniques of priming mice with pristane and interperitoneally injecting such mice with the hybrid cells to enable harvesting of the monoclonal antibodies from ascites fluid. In connection with synthetic and semi-synthetic antibodies, such terms are intended to cover antibody fragments, isotype switched antibodies, humanized antibodies (mouse-human, human-

The number of clones per DS contig varied between 1 to 22 with the length of each contig ranging from 250bp to 850 bp. Small sequence-tag-sites PCR assays were developed for each DS contig and two experiments were carried out concomitantly; mapping each DS contig back to the bacterial clone contig of the region and testing for the presence of each DS contig in cDNA libraries. Overall, 86 or 80% of the DS contigs mapped back to the region and were found to be in cDNA libraries. The number of 80% mapping to the region was probably an underestimate of the fidelity of the direct-selection since PCR assays which cross exon-intron boundaries would be expected to fail or give larger size products, thereby being scored negative.

b. Exon-Trapping

CsCl-purified genomic P1 (Genome Systems), BAC (Research Genetics) and PAC (Genome Systems) DNAs were digested with BamHI, Bgl II, Pst I Sac I and Xho I and 125 ng of each digest ligated into 500 ng pSPL3 (Church *et al.* Nature Genetics 6:98-105 (1994)) (Life Technologies, Gaithersburg, MD) digested with the appropriate restriction enzyme and phosphatased with calf intestinal alkaline phosphatase (USB, Cleveland, OH). One tenth of the ligation was used to transform XL1-Blue MRF' cells (Stratagene, La Jolla, CA) by electroporation. Nine tenths of the electroporation was used to inoculate 10 ml of LB + 100µg/ml of carbenicillin and after overnight growth, DNA was prepared using Qiagen Q-20 tips (Qiagen GmbH, Hilden Germany). The remaining one tenth was plated on LB +100 µg/ml carbenicillin plates to evaluate the efficiency on cloning and to test individual clones for the presence of single inserts. COS-7 cells were seeded overnight at a density of 1.4×10^5 /well in 6 well dishes. One µg of DNA was transfected using 6ml of Lipofect-Ace. Cytoplasmic RNA was isolated 48 hr post-transfection. RT-PCR was carried out as described by Church *et al.* (*ibid*) using commercially available reagents Life Technologies, Gaithersburg, MD). The resulting CUA-tailed PCR fragments for each restriction digested bacterial clone were pooled and UDG cloned into pSP72-U (a derivative of pSP72). The DNA was transformed in DH5α and the cells plated onto nylon membranes. After overnight growth, duplicates were made and the DNA hybridized to ³²P end-labeled oligos designed to detect various background products associated with the pSPL3 vector. One set of filters was hybridized with the following gel-purified oligos in 6X SSC aqueous hybridization solution at 42° C:

vector-vector splicing	5'-CGACCCAGCAACCTGGAGAT-3'
cryptic donor-1021	5'-AGCTCGAGCGGCCGCTGCAG-3'
cryptic donor-1134	5'-AGACCCCAACCCACAAGAAG-3'

The filters were washed twice in 6X SSC, 10 mM sodium pyrophosphate (NaPPi) at 60°C, 30 mins.

After overnight autoradiography, non-hybridizing clones were picked and grown in 250 µl of LB + 100µg/ml of carbenicillin in 96 well mini-rack tubes. The samples were analyzed by PCR using the secondary PCR primers supplied in the kit (Life Technologies, Gaithersburg, MD) and those clones with inserts greater than 200 bp were selected for sequencing.

Ninety-six exon traps per bacterial clone were sequenced for a total of 768 reactions and the resulting data analyzed by BLAST. In addition, each potential exon was searched against a database of the 86 DS contigs to eliminate redundant sequences. PCR assays were developed for

30 Clone name Bacterial clone Homology 5' Homology 3' Poly A+ signal Genomic poly (A)_o cDNA Homology

y065f06 p196c20 NSH na na cDNA 29
 yv88c09 p196c20 BUTYROVIN na na cDNA 29
 yd17d06 p196c20 NSH na na cDNA 23
 ye25g03 p196c20 BUTYROVIN na na cDNA 44
 ys04h08 pc45p21 NSH na cDNA 44
 ym01c05 p196c20 BUTYROVIN na cDNA 32
 YG78F10 PC45P21 NSH na
 yh54f11 p196c20 NSH na
 ys05b08 pc157c3 NSH na
 yb12h11 b132a12 NSH Histone H3.1
 HSC2EE082 b132a12 na
 HUM160h1b b132a12 none
 yg04f09 b132b12 Line element

15 yd37d11 b132a12 NSH Alu + - +
 ym29g03 b132a12 Histone H2A NSH + - -
 b132a12 NSH + - -
 y177b02 b132a12 NSH NSH - - -
 yh76b05 b132a12 NSH Alu - - -
 yu98e02 b132a12 NSH Alu - - -
 yd72h12 b132a12 Alu NSH + - -
 yd19d03 pc222k22 Histone H2B.1 NSH + - -
 ye98g01 b132a12 NSH NSH + - -
 y161f07 b132a12 NSH NSH - - -
 ESTO5340 b3e17 na Alu - - -
 yd35d05 pc222k22 NSH NSH - - -
 yc52a05 pc75L14 NSH na - - -
 yd84a05 pc75L14 none none - - -
 yf42a05 pc75L14 NaPi transport none + - -
 yd83h08 b20h20 NSH none + - -
 ye38c09 b20h20 NSH Alu - - -
 yp74c05 b20h20 NaPi transport Alu - - -

35 35 3 NONE reported by bias
 2 Not available
 1 Signal of ATAA or ATTA
 Bracketed area is the critical region

d. cDNA library screening
 Superscript plasmid cDNA libraries, brain, liver and testis, were purchased from Life Technologies, Gaithersburg, MD. Colonies were plated on Hybond N filters (Amersham) using

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cloned were not used in any screen. Therefore, it is possible that some additional genes within this 1 megabase region may have escaped detection.

A list of the cDNAs cloned and a comparison of the methods used to find them is presented in Table 4. Direct selection found 14 out of the 18 cDNAs contained within the boundaries of the YAC used in the experiment. Exon trapping found 15 out of the 19 cDNAs contained within the boundaries of the large insert bacterial clone contig. Sample sequencing identified 11 genes that had corresponding ESTs in the public database.

Table 4. Comparison of gene finding methods

	Bacterial Clone	CDNA #	Homology	EST	DS	Exon Trap
	157c	28	zinc finger	EST03556	2	1
	157c3	30	nonhistone	yv81d05 yvh07a10	1	none
	157c3	46	ORF	yd88g11	1	
15	157c3	20	BT	none	none	3
	p18696	21	BTF1	yn01G5 yg23d08 yg57h09 yu15h03	4	5
	45p21	32	BTF2	yg78f10 yn01c05	7	3
	45p21	29	BTF3	ye25g03 yo65f06	2	9
	45p21	23	BTF4	yd17d06	4	6
20	45p21	44	BTF5	ys04h08	2	4
	3e17	41	genomic?	none	none	1
	132a2	43	genomic?	none	none	3
	132a2	36	genomic?	none	1	none
	132a2	37	histone 2A	ym29g03 yh87a03	3	none
25	75114	24	MHC class I	ye98g01	1	2
	132a2	39	genomic?	none	none	4
	132a2	27	Ro/SSA	none	3	4
	132a2	22B	NPT1-like	yr42a05 yf09g06	1	7
	20h20	22E	NPT1-like	none	2	5
30	20h20	NPT1	NPT1	yp74c05	N/A	3

display varying degrees of homology to BT. BTF1 (cDNA 21), BTF2 (cDNA 32), BTF5 (cDNA 44), and BTF3 (cDNA 29) are 45%, 46%, 48%, and 49%, identical to BT, whereas BTF4 (cDNA 23), which is more similar to BTF3 (cDNA 29), is only 26% identical. This low degree of identity to BT is largely due to a truncation at the carboxyl terminus of the protein. The BTF family falls into two groups: BTF1 and 2 which are more related to each other than to BT or the other BTF members, and BTF5, 3 and 4, which appear to have a common evolutionary origin. The order of these genes on the chromosome suggests that the BT gene has duplicated two times, giving rise to BTF1 and BTF5. Subsequently, it appears likely these two genes experienced further duplication events to give rise to the other members in their groups.

10

The three major components of BT, the B-G immunoglobulin superfamily domain (containing the V consensus sequence) (Miller et al. *Proc. Natl. Acad. Sci. U.S.A.* 88:4377-4381 (1991)), the transmembrane region, and the B30-2 exon are found in all of these proteins (with the exception of BTF4 (cDNA 23) which lacks the B30-2 exon by virtue of the carboxyl terminal truncation). The exon B30-2 is a previously noted feature of the MHC class 1 region found approximately 200 kb centromeric to the HLA-A gene (Vernet et al., *J. Mol. Evol.* 37:600-612 (1993)). In addition this exon is found in several genes of diverse function telomeric to HLA-A namely MOC (approximately 200 kb) and RFP (approximately 1 megabase) (Amadou et al. *Genomics* 26:9-20 (1995)).

15

The levels of the BTF mRNA were analyzed by northern blot analysis (Figure 4A). The expression of the BTF genes fell into two patterns. BTF1 and BTF2 were expressed as a single major transcript of 2.9 kb and one minor transcript of 5.0 kb. These genes were expressed at high levels in all the tissues tested with the exception of the kidney where the expression level was less. The two genes are 90% identical at the DNA sequence level, therefore, it is possible that the signal observed on the northern was the result of cross-hybridization and only one of the two genes was actually expressed. To address this possibility RT-PCR experiments were carried out on a panel of different tissues in order to detect possible tissue dependent expression that would suggest that both genes are expressed. Identical, and thus equivocal, results were obtained with both BTF1 and BTF2 amplification (Figure 4B).

20

The second group of genes, BTF3-5, are expressed as three (BTF5) (Figure 4A) and two (BTF3 and 4) transcripts ranging from 4.0 to 3.3 kb. BTF5 is expressed at moderate levels in all tissues tested with the exception of the kidney where the expression level is less. RT-PCR

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experiments showed that mRNA from the BTF5 gene can be found in all tissues tested, including the kidney (Figure 4B). Identical results were obtained with primers from the other genes of this group (data not shown). These genes are also 90% identical to each other at the DNA sequence level (but only 58% identical to BTF1 and 2), hence like BTF1 and BTF2, cross-hybridization could account for the similarity in size and patterns on the northern blots and RT-PCR. This might be particularly true for BTF4 which lacks the B30-2 exon but still hybridizes to larger size transcripts like BTF5 and BTF3.

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ii. A gene with similarity to 52 kD Ro/SSA auto-antigen

Located approximately 120 kb telomeric to the HFE gene is a gene, RoRet, that has 58% amino acid similarity to the 52 kD Ro/SSA protein, an auto-antigen of unknown function that is frequently recognized by antibodies in patients with systemic lupus and Sjogren's syndrome (Anderson

40

subset of the polymorphic alleles so defined were further studied to determine their frequency in a collection of random individuals.

The cell line HC14 was deposited with the ATCC on June 25, 1997, and is designated ATCC CRL-12371.

5 a. Cosmid Library Screening

The strategy and methodology for sequencing the genomic DNA for the affected individual was essentially as described in copending U.S.S.N. 08/724,394, hereby incorporated by reference in its entirety. Basically, a cosmid library was constructed using high molecular weight DNA from HC14 cells. The library was constructed in the supercos vector (Stratagene, La Jolla, CA).
10 Colonies were replicated onto Biotrans nylon filters (ICN) using standard techniques. Probes from genomic subclones used in the generation of the sequence of the unaffected sequence disclosed in 08/724,394 were isolated by gel electrophoresis and electroporation. Subclones were chosen at a spacing of approximately 20 kb throughout the 235 kb region. The DNA was labeled by incorporation of 32P dCTP by the random primer labeling approach. Positively hybridizing clones were isolated to
15 purity by a secondary screening step. Cosmid insert ends were sequenced to determine whether full coverage had been obtained, and which clones formed a minimal path of cosmids through the 235 kb region.

 b. Sample Sequencing

A minimal set of cosmid clones chosen to cover the 235 kb region were prepped with
20 the Qiagen Maxi-Prep system. Ten micrograms of DNA from each cosmid preparation were sonicated in a Heat Systems Sonicator XL and end-repaired with Klenow (USB) and T4 DNA polymerase (USB). The sheared fragments were size selected between three to four kilobases on a 0.7% agarose gel and then ligated to BstXI linkers (Invitrogen). The ligations were gel purified on a 0.7% agarose gel and cloned into a pSP72 derivative plasmid vector. The resulting plasmids were transformed into
25 electrocompetent DH5 α cells and plated on LB-carbenicillin plates. A sufficient number of colonies was picked to achieve 15-fold clone coverage. The appropriate number of colonies was calculated by the following equation to generate a single-fold sequence coverage: Number of colonies = size of bacterial clone (in kb)/average sequence read length (0.4 kb). These colonies were prepped in the 96-well Qiagen REAL, and the 5' to 3' DNA Prep Kit, and AGCT end-sequenced with oligo MAP1 using
30 standard ABI Dye Terminator protocols. MAP1 was CGTTAGAACGCGGCTACAAT.

 c. Genomic Sequencing

The MAP1 sequences from the cosmid clones HC182, HC187, HC189, HC195, HC199, HC200, HC201, HC206, HC207, and HC212 were assembled into contigs with the Staden package (available from Roger Staden, MRC). A minimal set of 3 kb clones was selected for
35 sequencing with oligo labeled MAP2 that sits on the opposite end of the plasmid vector. The sequence of MAP2 was GCCGATTCATTAATGCAGGT. The MAP2 sequences were entered into the Staden database in conjunction with the MAP1 sequences to generate a tiling path of 3 kb clones across the region. The plasmid 3 kb libraries were concurrently transformed in 96 well format into pox38UR (available from C. Martin, Lawrence Berkeley Laboratories). The transformants were subsequently
40 mated with JGM (Strathman et al. P.N.A.S. 88:1247-1250 (1991) in 96 well format. All matings of the

PCR primers for detection:

182.1G7.F 5'-GCATCAGCGATTAACTTCTAC -3'
182.1G7.R 5'-TTGCATTGTGGTGAATCAGGG -3'

For the detection assay, the biotinylated primers used were as follows.

182.1G7.C 5'(b)CTGAGTAAATTGTTAAGGTGC -3'
182.1G7.T 5'(b)CTGAGTAAATTGTTAAGGTGT -3'

The phosphorylated digoxigenin-labeled primer used was:

182.1G7.D 5'(p)AGAAAGAGATAGATATGGTGG -3'

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A further rare single base pair change was detected at 61,465bp. The inheritance pattern of this polymorphism, C195.1H5C/T (a G to A change on the opposite strand), is identical to that of 24d1. The frequency of T occurring at that position (C195.1H5T) observed in a set of 76 patients was 78.5% as compared to 5% in random individuals.

15

PCR primers for detection:

1951H5.3F 5'-GAATGTGACCGTCCCATGAG -3'
1951H5.3R 5'-CAACTGTAATATGCAGAAAAAGTACACC -3'

For the detection assay, the biotinylated primers used were:

1951H5.3.4 5'(b)AGTAGCTGGGACTCAGCGGTGT -3'
1957H5.3.5 5'(b)AGTAGCTGGGACTCAGCGGTGC -3'

The phosphorylated digoxigenin-labeled primer used was:

1951H5.3.6 5'(p)GGGCCACCACTCCCAAGCTCAT -3'

25

These rare alleles are thus preferred surrogate markers for 24d1 and are especially useful in screening assays for the likely presence of 24d1 and/or 24d2. All publications, patents, and patent applications cited herein are hereby incorporated by reference in their entirety.

6 1:206, 65-2:159, 68-1:167, 241-5:108, 241-29:113, 373-8:151, 373-29:113, D6S258:199, D6S265:122,
7 D6S105:124, D6S306:238, D6S464:206, or D6S1001:180.

1 11. The method of claim 9, wherein the haplotype comprises at least two polymorphic
2 sites of Table 1.

1 12. The method of claim 11, wherein one of the at least two polymorphic sites of Table 1
2 is at base 35983 or 61465.

1 13. The method of claim 11, wherein the haplotype comprises at least three polymorphic
2 sites of Table 1.

1 14. A method to determine the presence or absence of the common hereditary
2 hemochromatosis (HFE) gene mutation in an individual comprising:
3 providing DNA or RNA from the individual; and
4 assessing the DNA or RNA for the presence or absence of a genotype defined by a
5 polymorphic allele of Table 1,
6 wherein, as a result, the absence of a genotype defined by a polymorphic allele of Table 1
7 indicates the likely absence of the HFE gene mutation in the genome of the individual and the
8 presence of the genotype indicates the likely presence of the HFE gene mutation in the genome of the
9 individual.

1 15. The method of claim 15, wherein the polymorphic allele occurs in less than about 50%
2 of a random population of individuals.

1 16. The method of claim 15, wherein the polymorphic allele occurs in less than about 25%
2 of a random population of individuals.

1 17. The method of claim 15, wherein the polymorphic allele occurs in less than about 5%
2 of a random population of individuals.

1 18. The method of claim 15, wherein the genotype is C182.1G7C or C195.1H5T.

1 19. A kit comprising one or more oligonucleotides of claim 1.

1 20. A kit comprising at least one oligonucleotide pair of claim 3.

1 21. A culture of lymphoblastoid cells having the designation ATCC CRL-12371.

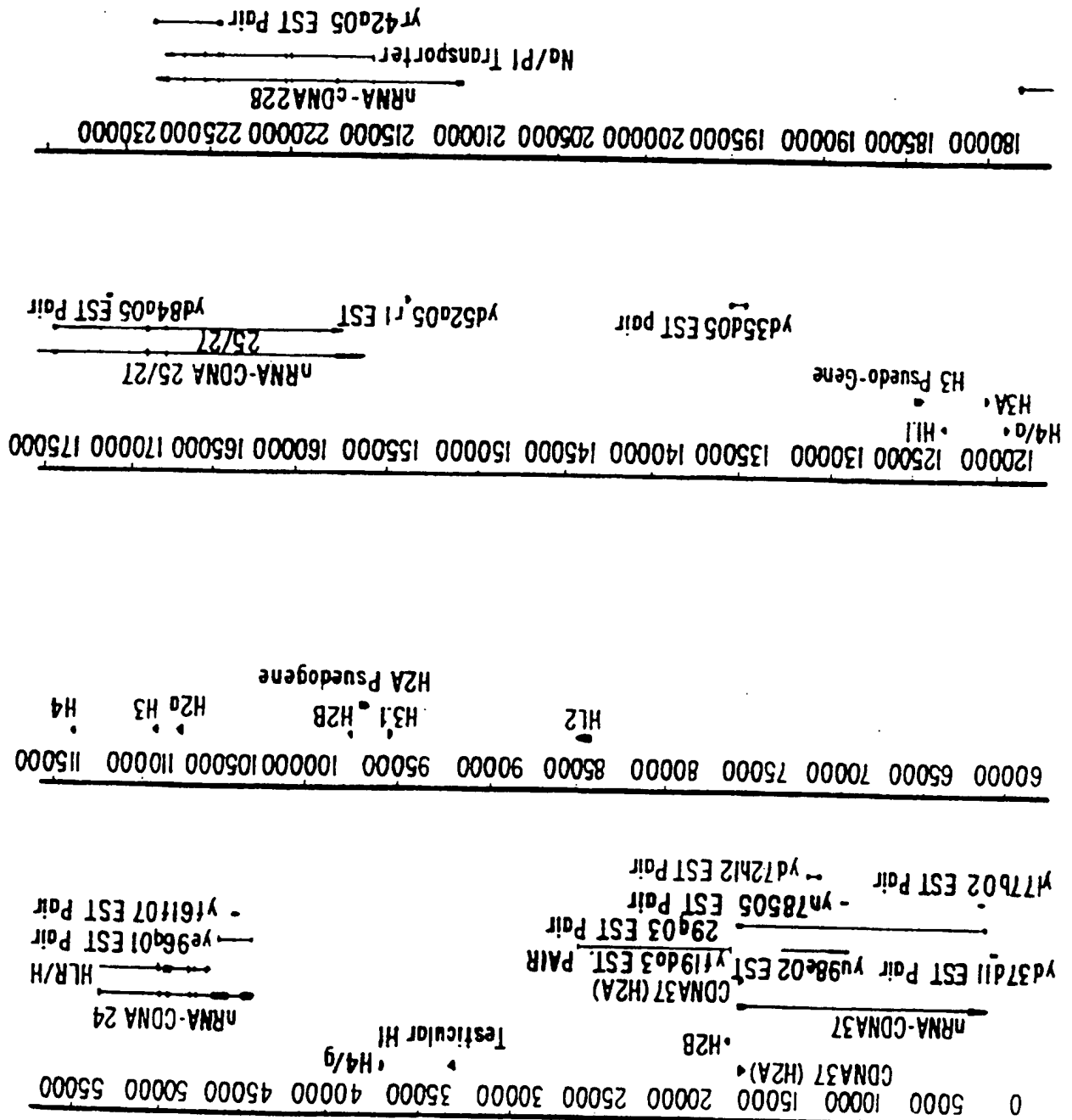
40.	1	An isolated nucleic acid sequence comprising a sequence substantially identical to	BTF4.	2	1
41.	1	The isolated nucleic acid sequence of claim 40, wherein the nucleic acid is cDNA.			
42.	1	The polypeptide encoded by the isolated nucleic acid sequence of claim 40.			
43.	1	A vector comprising the nucleic acid sequence of claim 40.			
44.	1	A host cell stably transfected with the nucleic acid sequence of claim 40.			
45.	1	An antibody that is specifically immunoreactive with the polypeptide of claim 42.			
46.	1	An isolated nucleic acid sequence comprising a sequence substantially identical to	BTF5.	2	1
47.	1	The isolated nucleic acid sequence of claim 46, wherein the nucleic acid is cDNA.			
48.	1	The polypeptide encoded by the isolated nucleic acid sequence of claim 46.			
49.	1	A vector comprising the nucleic acid sequence of claim 46.			
50.	1	A host cell stably transfected with the nucleic acid sequence of claim 46.			
51.	1	An antibody that is specifically immunoreactive with the polypeptide of claim 48.			
52.	1	An isolated nucleic acid sequence comprising a sequence substantially identical to	NTP-3.	2	1
53.	1	The isolated nucleic acid sequence of claim 52, wherein the nucleic acid is cDNA.			
54.	1	The polypeptide encoded by the isolated nucleic acid sequence of claim 52.			
55.	1	A vector comprising the nucleic acid sequence of claim 52.			
56.	1	A host cell stably transfected with the nucleic acid sequence of claim 52.			
57.	1	An antibody that is specifically immunoreactive with the polypeptide of claim 54.			

1 75. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT3.

1 76. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of NPT4.

1 77. An isolated nucleic acid sequence comprising at least 18 contiguous nucleotides
2 substantially identical to 18 contiguous nucleotides of RoRet.

FIG. 2.



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BT AGPPRRVGIFLDYESGDISFYNNMDGSDIYTFNSVTFSGPLRPFCLWSSGKKPLTICPI
BTF1 KESLCRVGVFLDYEAGDVSFYNMRDRSHIYTCPRSAFSVPVRPFRLGC-EDSPIFICPA
BTF2 KESLCRVGVFLDYEAGDVSFYNMRDRSHIYTCPRSAFTVPVRPFRLGS-DDSPIFICPA
BTF5 PKPPKKVGVFLDYETGDISFYNAVDGSHIHTFLDVSEALYPVFRILTLEPTALSICPA
BTF3 PEPPRKVGIFLDYETGEISFYNNATDGSHIYTFPHASFSEPLYPVFRILTLEPTALTICPI
BTF4 -----

BT ADGPERVTVIANAQDLSKEIPLSPMGEESAPRDADTLHSLKLIPTQPSQGAP-----
BTF1 LTGANGVTVP-----EEGLTLHRVGTHQSL-----
BTF2 LTGASGVMVP-----EEGLKLHRVGTHQSL-----
BTF5 -----
BTF3 PKEVESSPDPLVPDHSLETPLTPGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNH
BTF4 -----

BT -----
BTF1 -----
BTF2 -----
BTF5 -----
BTF3 KLQARTEALY
BTF4 -----

Figure 3 (Page 2 of 2)

52 kD Ro MASARLTMMEEVTCPICLDPFEVPVSIECGHSFCQECISQVGKGG-----VCPVCRQRFLKNLRPNRQLAMVN
RoRet MASTSTKKMEEATCSICLSIMTNPVSIINGHSYCHLCITDFEFKNPSQKQLRQETFCPCQCRAPFHMDSLRPNKQLGSLIE

*

***** Cysteine-rich domain *****

52 KD RO NLKKSQEAREGTQGERCAVHGERLHLFCEKDGKALCWCVAQSKKHRRDHAMVPLEEAQEQYQEKLVALGELRRKQELAEKL
RORet ALKKTQDEM-----SCEEHGEQFHLFCEDEGQLICWRCERAPQHKGHTTALVEDVCQGYKEKLQKAVTKLQLEDRCTEQ

52 kD Ro EVEIAIKRADWKT VETQKSR IHA EFVQQKNFLVEEQRQLELEKDEREQRLIGKEAKLAQSQALQELISELDRCHS
RoRet KLTAMRITKWKEKVQIQRQIRSDFKNLQCFLHEEEKSYLWRLEKEEQQTLSRLRDYEAGLGKSNELKSHILELEKCKQG
* * * * * * * * * * * * * * * * *

52 kD Ro SAELLQEVIVLERSESWNLKLDITSPELRSVCHVP---GLKKMLRTCAVHITLDPDTANPWLILSEDRQVRLGDTQ
RoRet SAQLLQNVNDITLSRSWAVKLETSEAVSLELHTMCNVSKLYFDVKMLRSHQVSVTLDPDTAHELLILSEDRQVTRGYTQE

52 kD Ro SIPNEERFDSYPMVLGAQHFHSGKHYYWEVDVTGKEAWDLGVCRDSVRRKGHLLSSKSGFWTIWLWNKQKEYAGTYPQTP
 RoRet NQDTSRRFTAFPCLVGCCEGFTSGRRYFEVDVGEETGWDLVGCMENVQRTGMKQEPQSGFWTLRLCKKGYVALTSPSTL

52 kD Ro HLQVPCQVGIFLDYEAGWVSFYNTDHGSLYSFSECAFTGPLRFFSPGFNDGKNTAPLTLCPLNGSQGSTDY
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** * ****

FIG. 5A.

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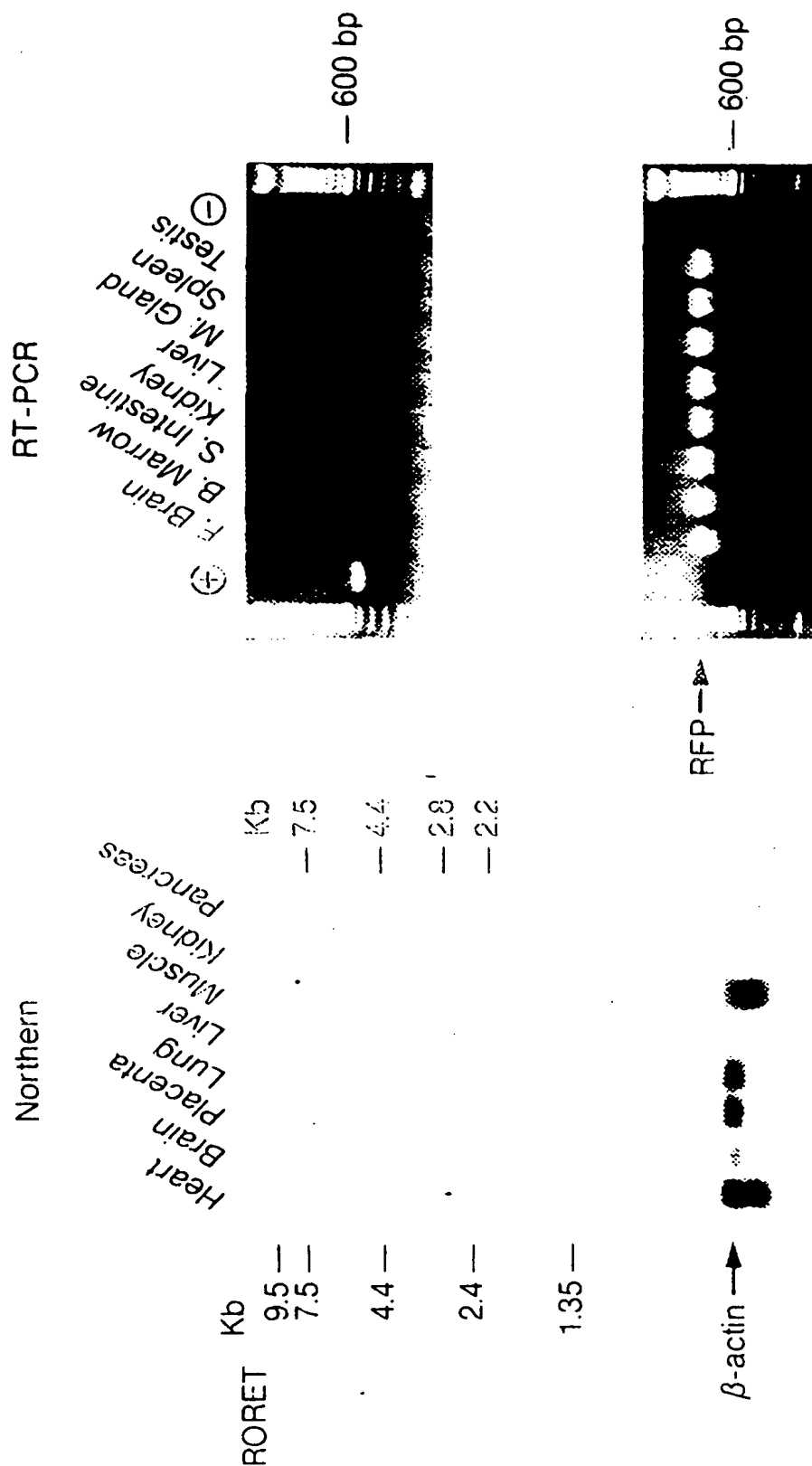


FIG. 6B.

FIG. 6A.

SUBSTITUTE SHEET (RULE 26)

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[illegible]

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>CDNA44

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Figure 7 (3 of 6)

Figure 7 (5 of 6)

<CDNA22B

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121 CTATTTTAGA TAGCCTTGTC TGAAACAGAG CTGGGACCTG ATGAGTGAAA ATGAGCTCAC
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241 GGGCAGAGCT TAGCTGCTTG ATGTGAAAAG AGACCAGCGT GGCTGGAACA GCAAAGGAGA
301 ACAGCAGAAG AGGTGAACAG AGGCCAGAGA TGGTCACTGA GTGGGCCCTT AAGTCATGGT
361 AAGGAGTATG GAGAATGAAT TATTGCATGT ATTGAATATG TAGGTGACGT GACTCACAGA
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481 GAGTAAATGG TAGTGTCACT TATTGAACTG GGGAGAACTG GAAGGGATAA CAGGCTTAAG
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15121	CTCTGACTCT	ATCAAGTACT	ATAGCTACAG	AGAAACACAA	GTAAGCATTC	GAGATAATGA
15181	CTACCTTGAG	CCTTTACTTA	TTTAAAAAGT	TGTTACTGTT	TGTTAATGTG	GTACATTCAA
15241	TTTACTATGG	ATTGTCACCT	TAAAATAAGA	CTTCAATCTT	TTTCTTATTT	TTATATAGCC
15301	ATGATTTATA	TTTATATCTT	AATGTAATAA	CCAATCTTCT	CTGACAACAT	TATAACAATG
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15661	GATCTGGCCC	TCCCAAGTAT	TAAAAACAA	GCAAATAAAC	AAATCTCAGT	TATATTTTAC
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15781	AAAGTTCCTA	AATAAGAATA	TTTACTAGAA	AATTTATTTT	TGCTGTGGC	CCACATTGGA
15841	GTCAAAATAA	TCAATTAGGA	AAAATGAAC	TGTTTAACTA	AAGTTGACCA	AACTGATCTT
15901	TGACCAAAC	GATCTTTGAG	ACCTATTCAT	CTAAGACAAG	CCAATTAAT	TCTTGAGAC
15961	AATTTGTACT	TTAAGGAATT	CTTATAATAT	TTGTAATTAC	CCTCATAACT	TTTTTTTTTG
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16081	AAAAAACAAA	AAACAAAAAA	CTAAACAAAC	TCACATGGTT	AGACTTGCTC	CTTTATGAGA
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26041 CAATCACAGC GCGCCCTACC CTATATAAGG CCCCAGAGGCC GCCCGGGTGT TTCATGCTTT
26101 TCGCTGGTTA TTACATCTTG CGTTTCTCTG TTGTTATGTC TGAAACCGTG CCTGCAGCTT
26161 CTGCCAGTGC TGGTGTAGCC GCTATGGAGA AACTTCCAAC CAAGAAGCGA GGGAGGAAGC
26221 CGGCTGGCTT GATAAGTGCA AGTCGCAAAG TGCCGAACCT CTCTGTGTCC AAGTTGATCA
26281 CCGAGGCCCT TTCAGTGTCA CAGGAACGAG TAGGTATGTC TTTGGTTGCG CTCAAGAAGG
26341 CATTTGGCCG TGCTGGCTAC GACGTAGAGA AGAATAACAG CCGCATCAAA CTGTCCCTCA
26401 AGAGCTTAGT GAACAAGGGA ATCCTGGTGC AAACCAGGGG TACTGGTGCT TCCGGTTTCT
26461 TTAAGCTTAG TAAGAAGGTG GTTCTAAAT CTACCAGAAG CAAGGCTAAA AAGTCAGTTT
26521 CTGCCAAGAC CAAGAAGCTG GTTTTATCCA GGGACTCCAA GTCACCAAAG ACTGCTAAAA
26581 CCAATAAGAG AGCCAAGAAG CCGAGAGCGA CAACTCCTAA AACTGTTAGG AGCGGGAGAA
26641 AGGCTAAAGG AGCCAAGGTG AAGCAACAGC AGAAGAGCCC AGTGAAGGCA AGGGCTTCGA
26701 AGTCAAAATT GACCCAACAT CATGAAGTTA ATGTTAGAAA GGCCACATCT AAGAAGTAAA
26761 GAGCTTTCCG GGAGGCCAAT TTGGAAAGAA CCCAAAGGCT CTTTAAAGAG CCACCCACAT
26821 TATTTTAAGA TGGCGTAACA CTGGAACAA GTTTCTGTGA CAGTTATCTA TAGGTTTAAG
26881 TTGTGATGCA GCTGAGTTGA AAAGGCTTGA GATTGGAGAA TTAATTCAGG CCAGGCTTCA
26941 AGACCATCCT GGGCAACATA GCCAGACTAC CATCTATACC AGGGGTCTCT ATTTCCCGGG
27001 CCACCGACCG GTAACCGGTC CCTGTCCATG GCACGTTATG AATTGAGCCG CACAGCTGAG
27061 GGGTGAGCGA ACATTAACCA ACTGAGCTCC ACCGCCTGTC AGGTTAGCTG CAGCATTAGA
27121 TAGATTCTCA TAAGCTCAAA CTGTATTGTG AATGGCACAT GCAAGGGATC TAGGTTTCAG
27181 GCTCCTTGTG ACAATCTAAT CCCTGATGAT CTGAGGTTGG AGCAGTTTTA GTCCGGAAT
27241 CATTGCTCCC AGCCCTGCA CCCCTGGTC CGTGGTATAA TTGTCTTACA CAAAACGGTC
27301 TCTTGTGTCA AAAAGGTTGG AGACTACTGG TTTTACAAAA AAGTAAATTA GTCAAGCATG
27361 GTTGGCACGC TCCCTTAGTC CCTGCACCCA GCGGTTTAAG GATACAGTGA GCTATGATGG
27421 TGCTACCTCA CTCCAGCCTG GGTGACAGCG AGTCAGACGT TGTCTCAAAA CTTAAAAAAA
27481 AAAAAAGTTA AAACAGAAAA AGGGCTTCTT GTCAGAGACT GCCGTATATC TAGAGGTCCA
27541 GGAATAAAAA AGTCTGATGT CCAATCCTGA AAAGCTCGAT GGTGCACTAG AGGAGGCTTT
27601 TACATGTAAG AGCATCTAAG TTCTGGAAAT GCCAGTGTC GGGAAAGGGA GTGGAGAGCA
27661 ATTTGGCATC CAAACATAAC TTGCTGATAC TTTTTTTTTT TTTAACACAA GTACTACATT
27721 CTAGTCTTTC TGTGGTGTCA TTGTAACAT TGTTTCTTAA TATGCTATCC ACTGACTTCA
27781 AGGGATCAAT AAATAGGAAT CAAGGTGTCC CAGAATATGG ATTAGGGGAG TTTTTTTGTT
27841 GTTGTGTTG TTGTTGTTTT TCATCTATTC ATTATCCTGT AGCTGAAATT TAGAATTTTC
27901 TTCCATTGTG TGTGACTGAT AGAAATAACA AATTTGTAGG TTATAGTTGT TGCAAGAATC
27961 TGGAAATCGT GCTTGCTTAT TTCCGAAGTA CTATTAGGTA TATCAACAAA AACACACATA
28021 TTACGGTCAA GTGGTTTGAT AATTATTTTA ATATTATTGG TCTAATACAA TTGTAACCCCT
28081 ATGAATTACT TTAAGTATCT TATTTATGAA AAGAATCTGT AAGTTTCATC AGACTACCAG
28141 AGCATACCGA AGACTGAAAA ATTTTAAGAA TCCAAACCTT AATGGAAATG TTGGAGGCTG
28201 CCCAATTAGG TTCTGAATTC CACCTTCCTG AATCACAAAC TTGTTTTAAC TCTCAGTCTG
28261 AGGTAAACTA CGTTTCTCTT TAAACAGACA TAGTTTAATT TTCCTTTGAT TTTTGATTTA
28321 GTATTCTTAC TGATCATCAT AAATAACCAA TGCTAATGTT AGTCTACTTT GGACCATGGT
28381 ATTTGAGAA ACTTTGAACA AAGTCCCCTG CAAAACATAG CATTGCATTA TTTCACATAC
28441 ATTTATGTTT TCCAGACGGT TCAATAGTAC CTCACTTTTT TGAACTTATT TGTATAGTTT
28501 GGCATCTTTT TAAAAATTGT GTCTATAAT GAAAGGTTGT AAACATTATG TTTTAAATTT
28561 GTATAGATAA AATCAACCAC AGACCTTTCC TTGCTTGGAT GTAATTGCCA TTGTTTCCCA
28621 ATGAGTTTCG AATTACTAGG ATTGTGCAAA AATATGCCTC ACTTGCCTGA CATAGCAGAG
28681 AGCCATTTTG CCTAAATGCT GTGCCCAGCA ATGGACTGTC ACCAGATTCT CATCACATAC
28741 AGTGAGGATG AACAACTAGC CTCTCCCAGC AGCTGGCCGG TCTCTCAATA ATATGGGACT
28801 CCCTCAAGAT GGCTTCCTGC ACCTTTGCTC CTCTAGCCTT GTATGTATAC AAGGCTAGCA
28861 TGCCTGGCAT ACATAAGGTT AAAAAACAAA TCAATAAGTT ATGGTTCTTC CTCCAGTTCT
28921 GGGGATTATT AGACCACTTT TTTGTTTTGT TTTGTTTTGG ATGGAGCCTC GCTCTGTCAC
28981 CCAGGCTAGA GTGCAGTGGC ACAATCTCGG TTCACTGCAA CCTCTGCCTC CTGGGTTCAA
29041 GCAGTTCTCT GGCTCAGCCT CCCACGTAGC TGGGATTACA GGTGCCCCGC ACCACGCCCG
29101 GCTAATTTTT GTATTTTATG TAGACGGGGT TTCACCATCT TGGCCAGGCT GGTCTTGAAC

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32401 CATCTCTACT TAAAAAATAA TAACCAAGAG TGTATAGAAA ATATATAATTG TCCAGAACTA
 32461 CCTCGACAA ACTAAGTCTC TCAGAAATAT CGATATAGAGG AATGAATAT GGTGTGTGTG
 32521 TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
 32581 ATATATTCAA CAACAATTCG TGATTAATTG CCAGGGTTGA GAATGACTAG ATGCCCAAGT
 32641 TACACTATCA GTTTTAAGTA TATAAATTGG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
 32701 AGAATACCTT TTAAGCTATA TTACAGGTGA GAAAAATGCAAT AGGTGTTCC AGGCATTTGG
 32821 ACTGGCTTGG GGCAAGAAAC TCCTCTAGCC AATGGCTGAT TTAATCTACT CCATCTAAG
 32881 GCTTCACTGC ATTTCTCTTT TTCAAGCAAC TAAGTATATTT AAAAAATATC ATTTTCTGAT
 32941 TCATTTTTTT CTGAATTAAT CTGATTAAT CTGATTAAT CTGATTAAT CTGATTAAT
 33001 CTGTGTGTGT TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
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 33901 TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
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 34561 TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
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 34801 TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
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 35041 TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG
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 35581 TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG

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38881	CCCAGCTAAT	TTTTTGTATT	TTTATTAGAG	ATGGGGTTTC	ACCATGTTAG	CCAGGATGGT
38941	CTCGATCTCC	TGACCTCGTG	ATCCACCCGC	TTTGGCCTCC	CAAAGTGCTG	GGATTACAGG
39001	CGTGAGCCAC	CGTGCCCGGC	CTACTTCACT	TTCTTCATTT	AAAAAAGAAA	TGGGGATAAT
39061	AGTACCTATC	TCATAGAATT	ATTGTAAGAA	GTGCATGCAG	TAATGCATGT	AAGTAGGTGC
39121	TCAGAAGAGT	CGGACACGAA	GTAAGTGCTT	TTATCATCCT	TATCATAATT	TTCATTATCA
39181	GAACAAGGAG	AGACCAGGTA	GAAAATTATT	GTGATTCTTC	AGGTCTGGAA	TACTAGAGTA
39241	GCATCCCAAA	TGAAGGCACC	ATTAAACTTT	GCAAATCTGT	ATGACACCTT	CATGCCAATT
39301	AGAAAAAACA	CCTCTTCACA	ACCCCTTTCA	AGATATTTGC	CTCCTACCTG	CTAAAAACAC
39361	CCATCATACT	ACCCACAGAT	AGCCATGATG	CTTTTTCTGG	GACAGGTGCC	TCTTCCATTC
39421	GTGCAGTGTA	CAGCCTTCAT	AGCTGTGCAA	CTCACATCAC	AATCAGATGG	AAGAATCCCC
39481	AAGGCTTGGT	GACAGATGAG	TTACTGGGTA	ACACAGAGAG	AGGATTCAAA	GGAAAAGTTG
39541	AACGGGTCCA	GAAAATGCAT	AGATACATGT	GTAAAAATCT	GGTAAGGTTA	TGACTAGCCA
39601	CGTCCCAGGG	TTCAAAGCTT	TTCTCAGATG	TTAAAATGAA	TCATGTAAGT	CCCCCAAATT
39661	TAAGGAGTCC	TCTTCCAAAA	ATAGGAAATG	AAATGACATA	GGTGTATGTC	TCTGAGGTGA
39721	CGGAGGAAAT	GAAGGAAGCC	TCTAGATGCA	GCTTGAGGTT	CATGAGAGAG	AGTTCCAGGG
39781	GAGAGGTCAC	AGCTAGGGAT	CACCGGCATG	CAGGAACTCA	GAAACCTAAA	TGGGGAAATC
39841	TTTTTGAGGA	AATGAACAGA	GAAGGCTAAA	ATCAAGGAGT	TCGTCAGGCA	ATTTCTATGT
39901	TTAGGTTCAA	CTCTCTCCTG	AAACATGAAG	AGCTCATAAA	TGCACTCCCT	CTTTGAGTCT
39961	CTAGTTTTGT	CTCCTTCCCA	CAGTGAGTCT	GCAGGCTGCG	TGTCCTCAC	GTTTCAGCTAA
40021	GACGTAGTGC	CCCATGGCTC	CTCCTGTGGA	GACAAGAGAC	CCAGGAAAGA	GGCATCACAA
40081	ACCTAGGCAC	CATCTTGCTT	CTTCTCTCTT	CCTTATTTTC	CTCATTCACC	CATCTCAATT
40141	TAGACCTGGG	CATCTTGCTT	TTTCAAGAAC	CATTATCTCT	CATCTGGAAA	TGCTTATTGG
40201	CTTTCTAACT	GGTCTCCTCA	CCTCTCATCT	AACTTCTTAA	CAACACATTC	ACCATATAAG
40261	GGAGATCGTG	GTCTCCTTTT	CTTAGGATCC	TTCAATGACA	CCCCAGTGAT	CATAACCCAA
40321	TATCCCAAAA	GACCCCTTGA	CTCTGTATGA	GCTGGCTTCT	TTCTGATTCT	CTTTTCCCTA
40381	CACCACAGAT	GTTTCAGGGG	TAGAAATGCA	TAATTGGTGA	GTGATAGCTA	CGCAAACCTA
40441	GGGTAAAGGT	ACAGTAATTA	TTTCTAATCT	CCCAGTATGC	CTTATACTCT	CCTACTTGGC
40501	ATGGTTGCTC	CGTCTGTGTA	GACCTCCCAT	CATCTTCAAC	CTCACCTAAT	GGAATCCAGC
40561	TTCTCCTTCA	AGATCCAGAA	GGCTATCTTG	ATCCCCAGCT	GAATGTGATC	ATTCTTTTCT
40621	TTGACACCCT	AAGCATTTGC	TTCTGCCTG	CTTTAGGACC	TCATGGGGTC	TTCTTTAACT
40681	ACATTTACTT	GCTATCAATT	TCATTCCTTA	CCAGATTTGG	GTTCTGAGAA	TAGCCACAGT
40741	GACTTCTCAA	CCTCAAAGCC	CCTGTACTAC	CTTAAACAGC	TCTTGCAAAA	TAGTAGGTGC
40801	TCTGAAGATG	TTTGTTGAAT	TAGAGACTTT	CATTCTGGGG	AGAACCATTA	TTTTCTGTCT
40861	CCCAGGGAGC	TGCTGGTGTG	CCCAAAGAAT	ATAAATGAGA	AAAATGCTTC	CCATGGATGC
40921	CAGATCCCCT	CTGCCCCCTG	TCCCAGTGTG	CCCTGGGGCA	GAGGTACTAA	GAGACTTCCC
40981	CCTTGTTTCT	ACTCACTTGA	ACCCTGCCTC	TTCTTTAATA	TTATGAACAA	AATTCCAATG
41041	AACAAGATGA	CGACAAAAAC	AGCAATTCCA	CTGATGACTC	CAATGACTAG	GGTGCCAGAC
41101	GGTGAGGGCT	CTAAAAACAGA	AAAAGCAAGT	TAAAGCCTTT	GATTGCCACC	CTCAGCCCAC
41161	CCCCTAACAA	AGAGCAGATC	CTCATCTCAC	TGCCATAATT	ACCTCCTCAG	GCACTCCTCT
41221	CAACCCCCAA	TAGATTTTCT	CAGCTCCTGG	CTCTCATCAG	TCACATACCC	CAGATCACAA
41281	TGAGGGGCTG	ATCCAGGCCT	GGGTGCTCCA	CCTGGCACGT	ATATCTCTGC	TCTTCCCCAG
41341	GGGGTACAGC	CAAGGTTATC	CAGCCCTGGT	AGGTCCCATC	CCCATTGGGC	AATACGTCTT
41401	TAGGTTTCGA	CTCCTTGGCA	TCCATTGGCT	GCTTATCCTT	CAGCCACTTC	ATGGTGATGT
41461	TCTGGGGGTA	GTAGTTCAAG	GCCCGACACC	GTAGAGTGGT	CACTGAAGAG	GTCACATGAT
41521	GTGTCACCTT	CACCAAAGGA	GGCACTTGAC	AGGAAAGAGG	AAGGATGAGG	AGAGGGGATC
41581	TGTTTACCCT	TGCCAGGAAG	ACTGGAACCT	TCACTTCCTT	CTATAGGTTG	GAGGAAGGAA
41641	ATACCCTTTT	CAGAAAAAAA	CAAGCTACAG	GAGAGACACC	ATTTTGTGTC	CTAAGATTGG
41701	ACTCTAACAC	AGTGTCACCT	GGAGAGCAGT	CAGATCAGCT	TGTTCTCCTC	ACATGTAAAT
41761	ATACATATCT	GTTACCCATG	TTCTTTGTTC	TGATAGATAA	AATTGCCCTT	TATGTGCATT
41821	GAAAATGATT	GAATACAGAT	GGTCAGTTTC	ACCTGGGTCA	ACCTAGGAGG	CATTGTTATA
41881	AGAAGCGGAC	TTGTAAGATA	GGTAGCTTCA	GTGATTATTG	CTATGTTCTA	TGAAAGAAAC
41941	TTTTAACCTA	AAGGATTCTT	CTACTCTGAT	AAGTGGCCTC	ACTTGATATT	TTGTCTGGT
42001	ATTCATATGA	TAGCTGAGAT	CTCTGAATTC	TCTTTTTTTT	TTTTTTTTTT	TTTTTAAGAT
42061	GGAGTCTCAC	TCTGCTGCCT	AGGCTGGAGT	GCAGTGGCGC	GATCTTGGCT	CAGTGCAACT

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45361 ATGCAAAATA TCAAGGGTA AAGACTTGT TCCCTGCTT CTCCTTGGG GCTTGAACA
 45421 TGCAACACAT GGCTGGGACT CATTTACACT TGTAAACAAAT GAATATTTCT GCTCAACATG
 45481 AAATTTTAT ATTCACCTC TAATGCAAGT TGAATTTAA GAATCATAGC TATGAAGTGG
 45541 AGCATAGAGC TCTGCCACCA AAGCCCAAGT TACCATTGAA TAAATTTGCC AAGGAAGCAGG
 45601 CCGTCCCATG CCTCATTTCT GTCATGTGTA AAATGTGGAT ACACGTTAGT CCAAAACTCA
 45661 AAGTGGTGT CTGAAGGCCG GGTGTGACCC ACAGAACACT GTGCTACACT ACAGGGCAAA
 45721 ATCAGTGTCA ACTAAGATTG GAAGCAGCTG TAGTACTTGA AATAACATCA GAAAACCAAG
 45781 TTAATTATGT TCTTTGTATC CTGAAGAGT TATATATC TGAAATTCAG TTAACCTCTA
 45841 GTAAATATA CGTATTTATG GCTCCTTACCT CCTATGCTT AGTGAATC AATAAGATC
 45901 AGATATGAAT GTAACTTAGA AGTGAAGTGA TGCTTACAT GTTCATATC AGTTAAGTCT
 45961 AGAAGGCCCT CTTAATTACA CAGCACATTT CAATCAATA AAGCTTAGC GAAGAAGAGC
 46021 TTGTTCAAGT CAACGTTCA AAACCTAACAT ATACTTAAT TTCCAGGCA AAGAACAAT
 46081 GCCAAGAGTG GGAAGAAGCC CGAAGTAGGC CTCTCTCAGG AGCTCCAC CCTAGAAGC
 46141 TCCACCCAG GTCTCACCA AAGTGGGTG AATTCAAGT AATTCAAGT TGAACCCG GTGCGGATCC
 46201 CTCTTTCCG TTGCTCAGCC TTCTCGGCA GCACCTCAGG AAGAACTTCC TGTTTGAGA
 46321 TGACTGGGGA AAAAAGTCA CAGCTGACAT TGAATAAA CCGAAGTCC AGTTCAAGG
 46381 AGCCCAAGC TTAGCTCAGC TTAAGTCAAG TTAATTAA AGCATTTAG AAGCCGGGGA
 46441 TTGGGGGAAG GAGTGGGCG GTTCCAAAG TCTCCAGTTC AGTGGTAGG ACTCCCTCAC
 46501 GGGGGCAGGT CCTGGGGGCG GGAAGCCCTA TCTCGAGTTC AGTGGTAGG ACTCCCTCAC
 46561 GGGGCTCTGA CGCAAAAGT AGGAGAGAGG GCAAAAGAAA AGCTAGTTTC GATTTTCCA
 46621 AAGTTAGCA ACTCCCAAGC GCAAAAGAAA AGCTAGTTTC GATTTTCCA GATTTTCCA
 46681 GCCCTTAGTT CGCCCGCAGC CCTCGGACTC AGCAGCAAG GCGCCCTGCA GGAACCGCGT
 46741 CTGCAAAAGC ATCAGGAGGA GAAAGCGCCG TCTCCGCTTC TTTGGGGGGG CGGGGAAACG
 46801 GCGCGCAGGT CCGGTAA TCTCCGCTTC TCAAGAGATG CCAAGTAA CTTCCCTGGTG
 46861 CAGAAAGTCA CCAAGTCAAG GGTCTTCA GGTCTTCA GGTCTTCA GGTCTTCA
 46921 AAAAGCAACA GGTCTTCA GGTCTTCA GGTCTTCA GGTCTTCA GGTCTTCA
 46981 TGTAACAAC TAGGTGATCC AGTGTGATCC AGTGTGATCC AGTGTGATCC AGTGTGATCC
 47041 GATTGGGGA AGTAGCTCG CAATGTTCTG ATCTGAACCT TAGATATTTA AATATTTATG
 47101 ATTTCAAAA TTCAATCAT CAATTAATA AAGCTTTTC ATTTTGTTC TGATTTCAAA TTAATTTAAGT
 47221 CATACATTA ACCAATTAGA TCTACTGA ACACCTTCCA CAGCTTCCA CAGCTTCCA AATTTGAATTA
 47281 TCTGACAAGT GTTCAAAA CTTACAGTA TTGGAATAT CTGAGAATG ATTAACATA
 47341 TTGAGGCCCTG CTCTAACCC CAGACACACT GATTAAATG GATTAATG GATTAATG
 47401 CATTAGCAGT TGGAAGGGA TGACAGAGGA GAGCGGAAG GCTGTCACTA AGACAGCCAC
 47461 TGCGCCCACT AAATTCAGC CCAGACTAC CTTAATGCCA CCGTAAAGGGA TGAAGTTAT
 47521 GATAAAGTCT GTGGCCAAA TATCTGAGG AAAGAGAAAG GAGGGAAGG GGTGAATTC
 47581 CCTAAGGTGG CACATGCCA CACACACAAA AGCCTGCTT CAAGTTCA CCAAGTTCA
 47641 CATGCCATCA TTATTAAGA ATTTAAGA ATTTAAGA ATTTAAGA ATTTAAGA
 47701 TCTTAACAAA TAAATCATC CTGCACTAC CTGCACTAC CTGCACTAC CTGCACTAC
 47761 TCAATCAAAA TAAATCATC CTGCACTAC CTGCACTAC CTGCACTAC CTGCACTAC
 47821 AAACCCCATY AAAGCACTT GAGCTCTGTA AAGAGTGTG GATTTCAATY AAGCTTCAATY
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 48061 CAGTATGGGA TGCCACCTGG GCAATGGGAT TTTAAAGGCT TTTAAAGGCT TTTAAAGGCT
 48121 TTTGGGAATY ATTGCTTAG AATTTCAAA CAATTAATY AATTTCAAA CAATTAATY
 48181 GCTCCAAAC TTTACATATC TAGCAAAATC AACAGGCAAT ATTTTGAATY AATTTTGAATY
 48241 AAATTTGGC AATTTCAAG AATCAACAG GATATCAGG GATATCAGG GATATCAGG
 48301 ATACAAATAC ATTGGAACA TGTGAATAT TGTGAATAT TGTGAATAT TGTGAATAT
 48361 TATTCCTTT TTTCAATTT TTTCAATTT TTTCAATTT TTTCAATTT TTTCAATTT
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 48481 CCGAGGAAG CAGATCACCT GAGATCAAGG GTTCAAGG GTTCAAGG GTTCAAGG
 48541 ACCCGCTCT TACTAAAAAT ACMAAAATY GCCGGGGCGT ATAGCAGGA ACTGTAACTC

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51841	ACCTGTAATC	TCAGCACTTC	GGGAGGATGA	GGCGGGCAGA	TCACCTTGAGG	TCAGGAGTTC
51901	TAGACTACTC	TGGCCAACAT	GGTGAAAACC	CATCTCTACT	AAAAACAAAA	AATGTTATCC
51961	TAGCCGGGCA	TGGTGCCTGT	AGTCCCAGCT	ACTCAGGAGG	CTGAGGCAGG	AGAATTGCTT
52021	GAACCCGGGA	GGTGGAGGTT	GCAGTGAAC	GAGATCACGC	CACTGCACTC	TAGCCTTGCT
52081	GAGAGAGCAA	GACTTGGTCT	TAAAAAAGAG	AAAAGAAAAA	TGAAATTTCA	GCATTATAGA
52141	ATAAAAAATG	TTCCCTTCC	CCCCAACTT	TAAAAAAGCA	GAAGTCTGCA	TCATAAAATG
52201	GTCTTTGCCA	ATGTTATTTT	TATTATAACA	AAGGAATCTT	GCAAGGCTAC	CAGATCTCAG
52261	CAATTGTCAC	TATGTTCTGT	AAAAATCACT	TCCTAAAATG	TCTGAATTGA	CTGCTTGTCT
52321	CATTTATTTG	TTTCTCGTGT	CATACTGCAA	TGGATATCTG	TCTTGTTAGT	ATAAATATTT
52381	GTGCATTTTG	TTGTTGTAA	AACAGCTTTT	TTGGCCTGTC	TTCTTCCACC	TATGAGGTAA
52441	TATAAACTC	ATGTTTAA	CTTATTTTG	TAGCAGGACA	AGCTACAGAC	AAAACCCCTC
52501	AGACACTGAG	TTAAAGAAGG	AAGGGCTTTA	TTCAGCTGGG	AGCTTTGGCA	AGACTCACAT
52561	CTCCAAAAAC	CGAGCTCCCT	GAGTGAGCAA	TTCTGTCCC	TTTTAAGGGC	TTGCAACTCT
52621	AAGGGGGTCT	GTGTGAGAGG	GTCATGATCG	ACTGAGCAAG	TGGGGGTATG	TGAGTGGCAG
52681	CTGCATGCAC	CAGTAATCAG	AACAGAACAG	GGATTTTCAC	AGTGTTTTTT	CACACAATGT
52741	CTGGAATCTA	TAGATAACAT	AACCGGTTAG	GTCGGGGGTC	AATCTTTAAC	CAGACCCAGG
52801	GTGCAACACC	AGGCTGTCTG	CCTGTGGATT	TCATTTCTGC	CTTTTAGCTT	TTACTTTTTT
52861	TTTCTTTGGA	GGCAGAAATT	GGGCATAAGA	CAATATGAGG	GGTGGTCGCC	TCACTTATTC
52921	ACCCCTTTG	AGAATCTCAC	TCATTAGTGG	GAGTTCCTAC	TTTTATTCTC	ACTACCTATG
52981	TCTTCTTGAA	AGACAGATTG	ATAATGATTC	ATATAGTACA	CTTGTGCTGA	AGCATTTTGG
53041	TGAGCTAAGG	TAGTGATGAA	GCTTTTTATC	ATTTGGAGAA	GTACAGGTAG	CAAACAAGGA
53101	AGCAGTAAGC	AGGTTTCTAT	TAATATTATA	ACTCCTATTA	TAAGAGTTTT	AAATCTTCTT
53161	AGCACTCGGA	ACCATTTTTC	AAACATGGCC	CCAGAAACAA	ATCCATACCA	CACCTACATG
53221	GGCACATGTG	CCACTTTTGT	CATATTCTA	ACTATGTCTT	CAACTACTTG	CCCTTAATCA
53281	TCTATGTGTA	GACAGCAATT	AGTAAGGTTA	AATTTCCCTAC	AGACCCCTCC	TTTCACTTGT
53341	AGCAAGTAGT	CGAGAGCCAA	TCCATTTTGA	TAGATAGCAT	TTTGCATCTG	AGTTTCTTGC
53401	CAGGCCACAG	TAGTCAGGGC	TCTGCTGGTC	TTATTAGTAA	TTATTTCTAA	GACAGCTTGT
53461	AACCGTATGA	TTCAGTTGAG	CATGTAAATG	GGGGTCCCAT	ATCCCCACAA	GCCGTCTTGT
53521	GCCCAAGTAG	CAGGCCCAT	ATATTGTATG	ATTCTCTCAG	GGGGCCATTC	ATTATTTTTC
53581	CAATTTTCTA	TAGCTATGCT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTGCGG
53641	GAAGCATATA	CAGGGAAGCC	CAGGAGTTTG	CCTGTCTTTA	TGGGCAGTAG	GAAGAAAGAT
53701	GGTTTAGTAG	TGTCAATAAC	ACAACCTACCT	GCCCCTGGT	CAGGTAATTT	GGCATAAGCT
53761	GTATGCCAC	ATATCCAGTA	TAATCCAGTG	GGGGCTGTCC	AGTCCCGGTG	GGACTCTGGG
53821	TGGGTCCACA	CAGTTTGCAA	CTTTGGGAAT	TTACTAAATA	GATTTTCTT	AGTGTGGTTT
53881	GAATCCACT	AGGTGGCTGT	TTTATAGTA	CTATTATACA	GTTTTTGCCC	AAGGCAGCTG
53941	AGTCTTCCCA	CAGGAAGGGT	GAAATCCTTC	CCCACCTTTG	CTATACAGTA	TTGTCTAATG
54001	ATTGAGGCTT	TTAGGACCCA	GAAGTTATCA	GGGTGAGTCT	TTTGAGCTGG	GAAATTATCA
54061	GGAAGTGGGT	CTGTAGGTAC	TAATTCTCGT	GCTTCCCCTG	GCCATTGATC	TCCCATTACA
54121	GTTCCTCCAC	ATACATACAT	AACATGAAGT	GACATTGAGA	GACTGGGCTA	CATGCTCAGC
54181	TAATTGCAAA	AACAAATTTT	TTGTTTTTCC	TGGAATTTCT	AGTACTGGCA	CATTCACTTC
54241	ATCATAAGAA	GGTTTGAAAT	ACTGGCTCAG	GGGAGCATTT	ATAAACTTCT	CCTCAAACCA
54301	CCATATTTAC	TCAAGGATCC	AGTCCAGCCC	CAACTATTTT	TAAGGTTACA	CGATCCCCCT
54361	TTTTCCAGTG	AGAATCAAGG	GGGTTGGTTA	TTACTAGTTC	TAAGGGGTTA	CACTGACCAC
54421	TGGTACAGGA	AGGGCCACTT	TTCCCTTTCT	GAAGGTGGAC	AGGATTCTTT	TTATTTTTTA
54481	ACCAAGTTGC	CTAAATGACA	CAAGACCAGT	ATCTACATTT	ATTTCCACGC	AGTCTTAATT
54541	CATGACAAGC	GTACTTATTT	TCTGCCATAT	AGCCTCTTTC	CTAATGAACA	GAACCATATC
54601	CTATTTCTAA	CTTATTACTA	TGAATGACAG	CACAGGCATC	AAATTTCAAG	GTAACTTGT
54661	TGGGCATTCC	TTTTTCTTCT	TTTGTGGCTA	ACACTTTACT	CGTATCGTTT	ATGAACCCCC
54721	ACCAGTCCTC	AGTCCTCAAT	CTTATTTCAA	AAACTGTGGT	CGTGGGAGGC	TCAGATGGGT
54781	CATAACACAC	ATCAGGTTGG	TCATTTCTTG	GGCTACCTAC	CTTGATAGTA	ATAGCATTAT
54841	ACAAACAAGT	TATTTTTAGA	GTCTTTGTAC	ACTTATAATA	ACCATAAAAT	AATAAGACTG
54901	TAGCAACTTT	TTGTCTTACC	TCAGTGACTT	GATGTATACA	CTGGGAACAG	CCCTCAGTCT
54961	GAGGAAGGTT	AGTTGAAGTC	TTTACTGTGC	AAGTCCAAAT	TTTAAGGAAA	ATGAGTCCCT
55021	TGATGAGTTT	TCTCATGTTT	CGGCCATGCA	TGGACCAGTC	AGCTTCCGGG	TGTGACTGGA

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58321	GGTAATTAA	ATTAGATCC	CCTGTTAGGA	AACCTGCCGG	GTTAAGAGA	TTTTCAGTG
58381	TTAATGTTAA	ATCATCTTCT	TTTTTCTTTT	TTCTTTAGGA	TACTTCTGAA	CCGGTGAAGT
58441	GTGCTCACA	TGAGGTTTCC	TGTAAGATTCC	TGTAAGATTCC	TTTCTTCTGT	TAGCAAGA
58501	GTGCTCACA	TGAGGTTTCC	TGTAAGATTCC	TGTAAGATTCC	TTTCTTCTGT	TAGCAAGA
58561	GATAGGAAG	CCTTAATGCT	TTTGAATAT	GCCCTGACAA	CAAGTGTCCA	GTTCCTTCCC
58621	GGTGTCCAG	CAGTGTCCAG	ATCCTCCAG	AGGCTGTGCT	CTGCTGTGCT	CTGCTGTGCT
58681	GTTCACCCG	GGCAATTGCC	TACCTGGAG	GGCTCTCCAG	ATCTGTGTG	CTCAAACTGG
58741	CTGAGTTCC	CCGTAGGAT	GCTAGGAT	GAAGGCTTAA	GTGCTGTGCT	GGGCTGTGCT
58801	GACCGTCCG	TAATCACTC	TGCTCCAAA	AACGCTTCC	CTGAGTGA	AATTCCTGTC
58861	CCTTTAAGG	GCTTCAACT	CTAAGGGGT	CTGATGA	GGTGTGAT	TGATGA
58921	AGCAAGGGG	AGTGACTGG	GGCTGCATG	ATCAGTAATC	AGAACAAG	AGAACAAG
58981	AGGATTTTC	ACAAATGCTT	TCCATACAT	GTCTGAATC	TATAGATA	ATAACCTGTT
59041	AGGTCAAGG	TGATCTTTA	ACCAGACCA	GGGTGGGGT	CCGGGCTGTT	TGCTGTGA
59101	TTTCAATTT	CCCTTTAAT	TTTTACTTTT	TCTTCTTTG	GAAGCAGAAA	TTGGGCATTA
59161	GACATATGA	GGGTGTGCT	CCTCCCTTAA	TTTAAACAAA	ATTTTCAAG	TCTTACCCCA
59221	AGTAATTTG	CAATATTTA	TAAAGTTATG	GCATAGAAA	TAAATATGAT	TGTAAAGGC
59281	GTAAGATAT	TTCTGTGGG	AAACATTTG	TTCAATAGTT	ATCAGTTAA	ATTCTGTGA
59341	AAATAACCA	TAGAGACCT	AAAGTACCA	GGGGCTAATA	ATAAGAAAGG	AGGAACACCC
59401	TCTCACTCC	CACCGTTAC	TGCGGAGGA	GAGGGTGA	CCAAGAGAG	CCAAGAGAG
59461	TGTGTTCTC	CCTCCCAT	TGTCACATA	TACCTGACCT	CCCTCCCA	AAATATAT
59521	CCAATATCT	TCCATATAT	ACATATTTAT	GTGACCTCTC	CACATATGTA	TACCTATGTA
59581	TTCTCTATAT	ATCCACATAT	ACCTAACCT	CTCACACACA	TATAGCTGAC	CTCCAGTGA
59641	GGAAATGGG	GAAGAGAGA	GAAGTTATCA	AAAGATTAAT	CTAGGTCATA	CTCAGAAATG
59701	TGAAACACA	AAACACACA	CAGAAACACA	AAACACACAC	AAACACACAC	TTGATTAAT
59761	TGTTTGTGTC	AAATTTAAG	ATTCGGGTC	AATGAAGAT	CCCATGGATA	AAGTTAAGAC
59821	ACTGCTGTAA	GGATGGTAG	GAATTAATG	TCTGAATCAG	ACGAAAGAT	GAGTTAATTAG
59881	AATGACACAG	GCCAAAGAG	ACAAACACAG	AACCTCCACAT	AAATAATGTA	TGAGGCCCGG
59941	CGCGGTGGCT	CATGCCAGTA	ATCCCAAGG	TTTGGGAGG	CAGGCCGGG	CGATCAGGAG
60001	TTTGAACCA	GGCTGGCCA	CATTGTGMA	CCCCATCTCT	ACAAATAATA	CAAAATAATA
60061	GCCGGGGGCTG	GTGGTGGGTG	CCTATGCTC	CAGCTGAGT	CACACCATG	CACTCCAGC
60121	CACCTAAGCT	CAGGAGGAG	AGTTGACAGT	GAGCTGAGT	GAAGGCTGAG	GAGGAGGAT
60181	TGGGTGACAG	TGTGAGACTC	TGTCACAAA	AAAAAATA	TTATATATAT	ATATATATAT
60241	ATATATATAT	ATATATATAT	ATATGAAAT	AATGAACAG	AAATTTAGAT	ACAGGAAAT
60301	CCAAAGCCT	TGTTAATGA	AGAAAGTTA	AGTATGTT	CCTTTGCT	TTAAAGAGA
60361	GCATTAACA	ATTAGAGAG	TGAATATG	TCAATATG	ACTCCCTGG	AAATATATC
60421	AATCCTCAT	CATGCTGAT	GGAGTGGC	ACTCCCTGG	AATATTTCC	AAATATATC
60481	TCAACATAT	CCCATAAAG	TGACAGGAA	GTGTGGGCT	ACTGATATC	TTCACTGAGA
60541	GAGGTGAGG	TAAATGAG	TCACTGACA	ATATAGAT	GAAGCAATG	ATTTAGATG
60601	CCCATAGTT	ACGTGAGAG	ATCCGTAA	TACACACACA	CACACACACA	CACACACACA
60661	TTGTCTGTA	TTGTCTGTA	CAGGTAGG	TGAGGTTT	GAGGCTTCT	ACATCAGACC
60721	TACTGACAC	AGTAAATGG	AGTAAATGG	ACTGACTTC	ATGAGGAG	ATTGAGGTA
60781	AGAGTTGAA	GATTTGTTCC	TGCTGTGGA	CCCTGCAACT	GAATATGAG	AAAAAGTAT
60841	ACCCCGCCAC	CCCGCTTCC	ATCTTCTTA	CCTGATTA	ATAGCTTTT	CAGAAACGT
60901	TGGCCAGGG	TTGTGGCTCA	CACCTGTAA	CCAGCACTT	TGGAGGGCT	AGCGGGGAG
60961	ATCATCTGAG	GTCAAGAAAT	CCAGACCA	CTGGCCACA	TGGCGAAAC	CCATCTCTAC
61021	TAAATATATA	AAAAATTAG	AGGGCAATG	GGCAACAC	TGTATCCCA	GCTACTCGGG
61081	AGCCTGAGG	AGGAGACTCA	CTTGAAGAC	AGTATGGAG	GTGAAAGTTA	GCTGAGATCT
61141	TGCCACTGCA	CTCCAGCCTG	GGCAACAGAG	TGACACTTTG	TCTCAACAG	AACACACAAA
61201	CCCAACAAA	CTTAAATCT	ACCTATGGC	AAATGCTG	TAAATGAG	ACCACAGAG
61261	CAGTGTTCAG	GAAGTTCAG	TGAATACCT	AAAAATTAG	GCAATGTTG	CTGGTTCAG
61321	TGGCTCAGG	CCTGTAATCC	CAATCTTCT	TGGAGGCCG	AGGCGACAG	TGGCTTAA
61381	TCAGGAGATC	TGACCAAGTC	TGGACCAAT	GGTGAAGCCG	TGTCTTACA	AAAAAGTAC
61441	AAAAATGAGCT	GGAGTGGTG	GCGGCACT	GTAGTCCAG	CTACTCAG	AGCTGAGTG
61501	GGAGGATCTC	TTGAACCCAG	AAGGCGGAG	CTGCAGTGA	CAGAGATCAT	GCCACTACAC

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64801	GCCAAGCAGC	AATGGCAGGT	AGTACACACA	CAAGAGGCAG	ATGATACAAC	ACATCCTTCC
64861	CAAACCTGGA	GATAAGCTCA	CCCCACAATC	CCGCCGCTGA	AATAGAGTTG	ATGTTACCAA
64921	TGTGCATTTT	TATGTCCTTT	TCCATACAGA	AAGATCATTG	AGCAAGTACT	ATGGTACTTA
64981	AAAAACAACA	TTCAATTCAT	TATTATGACA	AAATTAAATT	AATAGCTCTT	CCTTAAACTT
65041	TTAAATTCAA	TTTACAATGC	TTACTATTGG	CATTTATTAA	TCTACCAATT	TTTTCCCAT
65101	GAACCCATAG	AACAAATAAT	CTACCAAATT	TTTAACATTG	ATTTTTGGCA	AGGCTTTTGC
65161	AATTTGACGA	ACTTTAAGAA	GAAAACCTAT	AAATTGCAAT	TTTTAAATCT	GACATACTGG
65221	ACTTTTAAAG	TATCCAATTG	ACTAATGAAC	AAAACCTGCTC	CAAATTTTTTC	AATTCCTAAA
65281	AATCTTAAGA	CAATACTTAA	TATGGCAAAT	CTTAACCTTCT	TAAACCTTGT	AAGAATGCTA
65341	ATCAACTTAG	ATTGGTATAA	AGTTGAGTTA	AAAATCACAG	GATACATCAT	CTCAGCTATA
65401	AGTTTTTCATG	AGTTGAGTTT	TTACAATCAC	TTGAAATGCT	TAGAATAGGA	AATACGTATA
65461	AATTATTTAA	CATAAAATAT	TGTTACAAAA	CCTCTGGAGT	GTCAGTTTCT	CTGGCCAGAC
65521	TTTATGCTGC	AGCACCTTTG	CCTGAGTTCT	TGTCCTGCAT	CCAGGAAGAA	TTAGGTACAG
65581	AGGCAAGAGT	CAAGAAGATT	AGTTTTCCAA	TAGTTCAGCT	CACCTAGTTA	ATCTCCTGTT
65641	ACAATCTTCA	AAGTTATCAG	AAACCTGCAA	TTGAGGGTTA	TAATCCATTG	TTTGCAAGT
65701	TTCAAAACAA	GACAACATTT	GTCTATGAAT	GTTAAATGT	CCTAGGGTAG	TCACAGTCAA
65761	AAACACAATT	GACAAAGAAA	TTTAGTCACC	TCTGTGATTT	ACAATAGCCT	AACACAATAA
65821	CTCTAATTAT	AACTGATGAC	ACAAACTCAG	ATATCAGAAC	TCTAGAAATC	CCCTATAATT
65881	TTGGAACACA	CATTCACAGT	TTTCACTGAA	ATATGACCTG	AAGATCAAAT	ATCACCTTAT
65941	TTCAACAATC	CTATATAACT	AAACGTGTCA	AATGATCCTG	TTTACCTCTC	CTTTGGATAC
66001	TCCAGGGGCC	CTCTGTAGCA	TCCAAAAGTT	AGGGGTAGC	AAAGACAATT	TTGAAGCTGT
66061	AAAGGCTCAA	AACACTTAAT	GAACCTCTAG	TCATATCTGT	TCTCTACTCA	CTAAATGCTA
66121	GTAGCACCTC	TCAGTTGTGG	CTAAGCTGGG	AGGATCTCTT	GAGCCTAGAA	GTTTGGGGAC
66181	GCAGTGAGCT	ATGATTATGC	CACCTGCATC	CAGCCTGGGC	AACAATGCAA	AATCCTGTCT
66241	CAAAAACAAA	AACAAAAAAC	AAATTGCCTA	TGCTGTGGTT	ATCTCACAAT	TAATAAAAAAG
66301	GAAAAAATAA	GTATGCAGTC	TTTGTAGGTC	CTTGGGGTTT	GTTGGAACCT	AGAAAAAAT
66361	ACCCCAAAAT	AAAGACCGCA	GAAGCCAAAG	TTTTTCTCTG	ATCTTCTCCT	GCCCTCCTGT
66421	CTCTGAGTCC	CATTCTCCCC	GGAGTCTAGC	CATAGAAATG	AGAATTCTCT	TTCCTCAAGT
66481	TAGGTCATAG	AAATCAAAAC	ACCTTTTCCC	CAGAGCCCAG	CCATAAAACC	TAAAAATATT
66541	ACTCTAACTT	TCCCTCTGTT	TTTCTGTGTA	AAAACCTGGC	ATAAAGAAAT	TATCTGAACT
66601	ACCTTATTTG	ATCATAGATC	ACCAGACCGC	ATTCCAGAGA	GGATCCAGAA	GGAAGGAATG
66661	CTGCACAGAG	AGGCGAAGAA	GAATCTAGAC	AGACAGGCCCT	TGCTGGGTTT	CCCTACTCTG
66721	TTTATTAGCA	ATCCTATTTT	TACACGGCGG	CCCATACTTT	GTTGAATCTA	AAAAATAAAA
66781	ATGGACAATT	TCCCCTGTAC	ATGTTAATAC	ACATTAATAA	ATTGGATATA	AATTGGATAA
66841	TTTATTAATA	TACACATTAA	TAAATTGGAT	GCAGCCGGGT	GCAATGGCTC	ACGCCTGTAA
66901	TCCCAGCACT	TTGGGAGCTG	AGGCGGGCAG	ACCACGAGGT	CAAGACCACC	CTAGCCGAAA
66961	TGGTGAAACC	CCGTCTCTAT	TAAAAATACA	AAAGTTAGCT	GGCGGTGGTG	GCACATGCCCT
67021	GTAGTCCCAG	CTACTGGGGA	GGCTGAGGCA	GGAGAATTGC	TTGAACTCGG	GAGGCGGAGG
67081	TTGCAGTGAG	CCGAGATTGC	GCCACTGCAC	TCCAGCCTGG	TGACAGAGTG	AGACTCCGTC
67141	TAAAAATAAT	AATAATAATA	ATAATAATAA	TAATAATAAT	AATAAATTGG	ATGCATTTTA
67201	TCCTATTAAT	CTTCTCTTGT	TCGGTGGTTT	TCAGCGACTC	TTCAGAGGCC	AAAGAGTAAG
67261	TTTTCCCTTA	GCCCCACAG	GTTCTTATGT	TTAATTGTGT	ACTCTCATTT	AAGACATAAT
67321	TAAAGTGGCT	TCTCCATGAA	GATTATTTCT	GCATCCATTA	TTTGGTAAGA	TTGGCCGTTT
67381	TCTCCTTTGA	TCTCTACTTC	ACACTGACCC	ACATAAAACA	TCACTGCCTG	TTTTTTTGT
67441	GTTGTTGTTT	GGAGACGGAG	TCTTGCTCTG	TTGCCAGGC	TGGAGTGACG	TGGTGTGATC
67501	TCCGCTCACT	GCAAGCTCCG	CCTCCCGGAT	TCACGCCATT	CTCCTGCCTC	AGCCTCCTGA
67561	GCAGCTGGGA	CTACAGGCAC	CCACCACCAA	GCCCCGCTAA	TTTTGTATT	TTTAGTAGAT
67621	ACGGGGTTTC	ACTTTGTTAA	CCAGGATGGT	CTCGATCTCC	TCAGCTCGTG	ATCGGCCCGC
67681	CTCAGCCTCC	CAAAGTGCTG	GGATTACAGG	AGTGAGCCAC	TGCGCCCGGC	CCCGTTTTTT
67741	TTTTTGTTT	TTGCATGTCT	TCTCCCTTTT	ACTGTAAACT	ATTTCCACTA	CCAGCGTAGT
67801	TATCATTTCT	ACTGCTTAAT	AATTGTTTTG	GGGAAAGTGA	TGCATCAACC	CACATGAATT
67861	TCTTGTCTAT	TTGACAATTT	ATTCTCTTTA	GGAATAGTAT	TAACTCCTAA	GGTCTGGGA
67921	GCCAGTCTCT	GTACTTGGCT	GCTCCAGGGT	CCTACTTCAG	TTTCCCAGCT	TCTCAGTACT
67981	GTCAGTGCTA	ATTGTGGGTA	ATAATTATTT	TTGTCCACCA	AAAGACTCTG	TATGTGAATG

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71281	CTTCTGCTC	TTCGACACTA	CCAGCTCAGC	TGTGCTCTCT	ACATGACAGG	AGTTTACAA
71341	GTTTCAGATT	AGCCTGGGAC	TTCGAGGCTT	TGGAATGGGT	TAGGGAATGG	GGAACCTTTG
71401	GGTTTACTTT	CCATTTTCTC	TTCATACATA	TGTAATATAT	AACATTAATC	TATGGTATAT
71521	TAAATTTTAT	AAATATTTAA	AGGTTATCAA	ATAATATTA	ATAATATTA	TAAATATTA
71581	AATACCTCAG	TTTGTTTCTC	AAAGTGATTA	ATGCTTATAT	TTAGCAAAAT	ATTTTGGG
71641	GGCCTGATAG	TTTGAAGGAG	TGTTAAGGAG	TGTTAAGGAG	TTAGCAAAAT	ATTTTGGG
71701	TTTGAAGGCTG	TTGCTCTCTC	TGTTAAGGAG	TGTTAAGGAG	TTAGCAAAAT	ATTTTGGG
71761	ACGTTTACGC	AGCACATTA	CATTTTATGT	TTGTTTCTCT	TTGTTTCTCT	AGTGGCTGTG
71821	TCTTTTCTAT	CGATTTCTCA	CATTTTCTCA	CATTTTCTCA	CATTTTCTCA	AGTGGCTGTG
71881	GGTATAAGTT	CTTGAAGGAG	CACACTGTCTA	GGCTGATAT	TGTTTATAT	TGTTTATAT
71941	GTGCTCTGCTG	CTTAACAGAG	GCTCATTAAG	TGTTTATAT	CACAGCACAG	TAAATAACTA
72001	GACATTAATA	AATAATGCTA	ACCAATCTAT	TGAATTTTGC	ATTTCATGT	TTCTTCCAT
72061	ATAGTCATTTG	TGTCAGGTTA	TGTAATTTAT	CTATTTGCTA	ATAATGCTA	ATAATGCTA
72121	GCATCTTGTG	CTTATTAAT	GCCTTCATAT	TGAAGAGGAG	TAAATAATGT	TCTGAATGTG
72181	CATATCTCTCA	CAATTTGACA	ATTTCTATCC	TTGAGGCTA	GGTTTGAAT	TCTGAATGTG
72241	TTGACATCA	TTTGAAGGAG	ATTTCTATCC	TTGAGGCTA	GGTTTGAAT	TCTGAATGTG
72301	TGTCATTTAT	ACAATTTATA	TGCAATTTAT	TTGAGGCTA	GGTTTGAAT	TCTGAATGTG
72361	ATTTTCTCT	TTGTAATAT	CTCTATGAT	TTTAAATTT	TATATTTAT	TATATTTAT
72421	TATTTATTT	TCTGACAGA	GTCCTGCTCT	GTGCTGCTCT	TTAGAGTGA	GTTTGTGTAT
72481	CATAGCTCTC	TGCAACTTCA	AACCTGCTTG	CATAAGTAT	CCTCTGCTCT	TATTTATAT
72541	AGTAGAGTAG	CGGGAATAC	AGGCTGCTCT	CACCTGCTCT	AGCTTATAT	TATTTATAT
72601	GCTCCTACTG	TGTGCTTAT	TATATTTCT	GTTGTTTCT	GCAACCTAT	TTGAGGCTCT
72661	GTTAGGGAAT	ACAGATGCTA	TAACTTTCT	CTCAGCTCT	GAGGTGAGG	AAATTTAGC
72721	CTCAGGTTTA	ATCTAATTT	TGCTCATTTG	CCTTCATAAG	TTGAATATG	AGCAAAACTG
72781	TGCTCTGCTG	TTATATTTTA	AAAAAAAT	TATGGGCTG	AAGCCAGGCA	ACAGACAAGA
72841	GGCCTTACAA	TCTTATTTAG	GCTGAAATA	TCTTGAAGT	CCTGTATTT	TGCTCTCAAG
72901	CAGATAGCAA	CACATAACAT	TACTTCTTGA	GGCAGGCTCT	GGCAGGCTCT	TGCTGTATAT
72961	PATTAAGCTC	ATTAATTTGT	GAGTCAAGGA	AAAAACAAGT	TAAATCATTC	AAAGTTCTTG
73021	CCTATACAGG	ATTAAGTAA	ATTAAGTAA	CTACATCTTA	AAAGTGAAG	AAAGTTCTTG
73081	TAAAGCTGCTG	CTTGGTGGTT	CACACCTATA	TTTGAAGGCA	GCTTGAAGCA	CCCTGTCTC
73141	GGATCCTCTG	GTGCAAGAG	TTTGAAGGCA	GCTTGAAGCA	CATAGTGAAG	CCCTGTCTC
73201	TATCAAAAC	AAAGAACTCT	AAITGGGCTA	GTAAGAGGA	AAAGTGAAG	AAAAACAGC
73261	TGTCAGCTCT	ATTCCTTACA	CCTGTCTTAA	CAAGTCTCT	CATATCTCT	TGAATATAT
73321	TTGGCTGTTT	GAGTCTCTCT	CTAGCTCTCT	TACTGCTGTT	TGGAATTTG	ATTTGCTCT
73381	GCAATTTTAA	CTTTTCTTAC	AGGTTTCTCA	GACCTTGAAG	AGTGTGGCAT	GAAACAATAAC
73441	TAGTCAACCT	ATAATATTTA	TGATGTGTGT	GTAATATTA	GAAATACACA	TATATTTGAT
73501	TACATAATTT	TAACTGTGTC	CTCAATTTGT	TTGTGCTTT	CTTGAAGCA	TCAAGTTTGG
73561	TGCGGACGAC	CACATCTTAA	ATCTGAACTT	TCCCTTGGAG	GTCATTTCTT	TTTTTTTGA
73621	ATAGAGCTCT	GCTCTGTCTC	CGTCTGTCTC	GCTCTGTCTC	CTCCTGTCTC	CTCCTGTCTC
73681	CGTCTGTCTC	CTGCTGTCTC	CTGCTGTCTC	CTGCTGTCTC	CTGCTGTCTC	CTGCTGTCTC
73741	AGATGCAAGC	CACATGCTCT	AGCTGCTCT	TGTAATTTT	GAGAGAGGCT	AAATTTTCA
73801	TGTTGCTCTG	GCTGCTCTCT	AACCTGCTCT	TGTAATTTT	GAGAGAGGCT	AAATTTTCA
73861	GTGCTGGGAT	TACAGGCTCT	AGCCTGCTCT	CCGCTGCTCT	GGTCAATCTA	ATAGACTTTT
73921	TTTTTGTGTT	TGCTGACAGG	CTTGTCTTAA	CTTATTTTCA	AAATTTTGA	ATAGACTTTT
73981	CATGGAACAC	CAACGAGATA	TCAAGGTTGCT	ATGGAATTTG	TAGTCAAAAG	CTTGTATCT
74041	TCCAGTTTCT	CAGAAATGCT	TCTAAAGGCT	CTGATTTACA	GCTCTTACG	GAAATTTGAC
74101	AACCAAGTGT	CAAAAGTACA	CATTCAGGAA	GTTAAATAACA	TGACTGACAT	ATATGTTACTA
74161	TATATAGTGA	GCTTGTGTAT	GTGTCATATG	ATGATTTTAA	TCAATTTTGA	AGGAGGAGG
74221	AGAATCACAA	TTAGGCTCAA	GGAAGATACG	GGAATTTAA	ATATGTTTAT	GGTCAAGGAA
74281	AGGATGTATA	CTGGAAGAGG	AAGGAAAT	CAGATATAA	GTGTTTAA	GACTTATAG
74341	GCAATACAT	AATTAACAT	AGGCTATTT	AAGAAATTT	ATGCTTAT	TTCCATCTCT
74401	ATGACAAAAT	CCTTATTAAT	TTATTAAT	TCTACAAGT	AATGTTTACT	TTTGAATAGT
74461	CTGGACCCAA	TAAATGTAA	ACATTAAGT	AGAGTTTACT	TCACGTAGGA	CAGTGTGCT

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77761	CGGCGCTTTG	CCACTTGTAC	CCGAGTTTTT	GATTCTCAAC	ATGTCCGAGA	CTGCTCCTGC
77821	CGCTCCCGCT	GCCGCGCCTC	CTGCGGAGAA	GGCCCCGTGA	AAGAAGAAGG	CGGCCAAAAA
77881	GGCTGGGGGT	ACGCCTCGTA	AGGCGTCTGG	TCCCCCGGTG	TCAGAGCTCA	TCACCAAGGC
77941	TGTGGCCGCC	TCTAAAGAGC	GTAGCGGAGT	TTCTCTGGCT	GCTCTGAAAA	AAGCGTTGGC
78001	TGCCGCCGGC	TATGATGTGG	AGAAAAACAA	CAGCCGTATC	AAACTTGGTC	TCAAGAGCCT
78061	GGTGAGCAAG	GGCACTCTGG	TGCAAACGAA	AGGCACCGGT	GCTTCTGGCT	CCTTTAAACT
78121	CAACAAGAAG	GCAGCCTCCG	GGGAAGCCAA	GCCCAAGGTT	AAAAAGGCGG	GCGGAACCAA
78181	ACCTAAGAAG	CCAGTTGGGG	CAGCCAAGAA	GCCCAAGAAG	GCGGCTGGCG	GCGCAACTCC
78241	GAAGAAGAGC	GCTAAGAAAA	CACCGAAGAA	AGCGAAGAAG	CCGGCCGCGG	CCACTGTAAC
78301	CAAGAAAGTG	GCTAAGAGCC	CAAAGAAGGC	CAAGGTTGCG	AAGCCCAAGA	AAGCTGCCAA
78361	AAGTGCTGCT	AAGGCTGTGA	AGCCCAAGGC	CGCTAAGCCC	AAGGTTGTCA	AGCCTAAGAA
78421	GGCGGCGCCC	AAGAAGAAAT	AGGCGAACGC	CTACTTCTAA	AAACCAAAAG	GCTCTTTTCA
78481	GAGCCACCAC	TGATCTCAAT	AAAAGAGCTG	GATAATTTCT	TTACTATCTG	CCTTTTCTTG
78541	TTCTGCCCTG	TTACTTAAGG	TTAGTCGTAT	GGGAGTTACT	GAGGATCTAG	ACGAATTGGG
78601	TGACGGGGTT	GGAGAGTGGC	CGTGGTGAGG	TTACAGCATT	TAAACCTTTA	TTGCGGCTTC
78661	TAGGTCCCTG	ACCGGAGGCT	TTTCTCGCTG	GCGGATGGTT	TTGGGATGGC	AGTCCCGCCC
78721	CAGGCCTGTG	AACGGCAGAA	AAGACCGCAA	AACAAGAGCC	AGTTTCTTAG	TCTAAAGGGA
78781	TGTCCGGATT	GGACTAAAAA	ATTTTCAAAA	GTCCCGCCCT	GCTCCCGGGT	TGGTCCGTTC
78841	TTCTAGTACA	TGACTTTCAT	TCTGTATTTA	ATTGGATGGT	GGAAGACGTT	GCTTATTCTG
78901	TGTTTTTTGC	TTTACTGTGA	CTTAAAAGTT	TTGCCTCTTT	TCTCTTTATA	TTAATGTCTG
78961	GGATTTCCGA	CGCTTTCAT	GTTGTTGGTA	GTCAAGTTGA	TGTCTCCTGG	AGGTAGTGGC
79021	AACATCCAGC	CCTGGGAGGA	GAGTGCGTGC	AGGTACCTTT	GTCTTACATT	CCTCTGCTGT
79081	TAATTTCTCA	TTCTGTGGC	AACGAAGGAA	TGCATTTAAA	AAACAGCCAC	AACAGCGGCA
79141	ATAGCCCTTC	CTCCACCCAA	GGCAATCGTG	GACCTAGGGA	GTTTTTTGTG	CCACATAACA
79201	TGTAGCCTTC	CGCTAAACTG	ACAGGTTTGA	GCGTATCGAT	TTTGAGCGTA	TCGAAAGCAC
79261	AACTTTTAGC	CAGCCATTTT	GTCTTCGCAT	GACTACGGTT	GCTTATCCTG	TTTAGACAGA
79321	CAGCAACATT	TAAAAATCGA	AGTTCCTTTA	AACGTATTTT	GTTTGGCAGT	CCAAATGTTT
79381	CTATGCAGAA	AACAGTATTT	GTACTATTAA	CTATGAAGAG	TGTATGGATA	AATGGGAGAC
79441	ATTTCTAATA	AAGGCCTTCG	TTAATGGTTC	CCTCTGTTTG	ACATCCATGG	TGCTTCTGAA
79501	TACAGAAAGC	CTAGCGTCTT	ATATTCGCTT	CTTTTAAAAT	CTGGTGGGCA	CATTTTGGTG
79561	AGACCTAAAT	TATGGGGACT	GGGGCTTCTG	GAGATAAGCT	GCTCAATTAT	TCTACCATCT
79621	CCACAATGAT	TAATATAGTG	AGTTGATTTG	TTAGTGATAG	TGACCACGGA	TTCATCCCAA
79681	GAAAGAGAAA	GGGGAGGGAG	GCAAGCAGAG	AGACAGGAAG	ACAGAGGCAG	GGAAGAAGGA
79741	GAAAACATT	TCCCATGGTT	TAAGTAATTT	TGTGTTGTTA	ATTTTACATT	ACAACACGGT
79801	TTAACATGGT	GAACCCTCTA	TTTTGGTGTA	AGGTTTAAAC	TATGGACATA	TTTTTCCCAA
79861	GACCATTTAT	GAACCTTTCAT	TTCTGCTTCC	CCCTTCTTCC	TCCCGTGCCA	CCCTCCACGC
79921	TCCTATCAAT	TTTGGCTGTT	TTGTACATAG	CTAATACGCT	ATAATTTTAT	GGACATTTGG
79981	ACTGTCTTAG	GTTTCTCAGG	TTTCTATTTT	GTTTCTTTAG	TCATTCCAC	AATTCTTAAG
80041	GTAGAATTGT	ATTGTTTTAA	ACATTGTGTT	GTGTGCTATC	CTCAATGCTG	AGATGATTAT
80101	GTGACAAATG	GCAAGTGTTT	AACTAATACC	TAAATCTGTA	GTATCTTATC	AAGCCTAATG
80161	CTACTTCACA	ATGCCTACTC	CATTACCTC	ACTTTATCTC	ATTACTGGCA	TTCTGTCATC
80221	TCACATCATC	ACAAGTAAAA	CGGTAAGCTA	TTTTGAGAGA	GATCACAGTC	ATATAATTTA
80281	TATTTATATT	TATTTATTTA	TTATGAGAC	GGAGTTTCCC	TCTGTCACCC	AGGCTGGAGT
80341	GCTGTGGCAC	GTTCTCGGCT	CACTGCAACC	TCCGCCTCAC	GGGTTCAAGC	GATTCTCCTG
80401	CCTCCGCCTC	CCGAGTAGCT	GAGATTACAG	GGGCCTGCCA	CCATGCCCCG	CTAATTTTTG
80461	TATTTTTAGT	AGAGACGGGG	TTTCACTAAG	TTGGCCAGGC	TGGTCTCGAA	CTCCTGACCT
80521	CAGGTTATCC	GCCCACCTCA	TCCTGCCAAA	GTGCTTAGAT	TACAGGCGTG	AACCACCGTT
80581	CACAGACTCA	AATCATTTTT	ATTACAGTAT	ATTGTTATAA	TTGTTGTTTT	ATTACTAGTT
80641	ATTGCTAATC	TCTTACAGTG	CCTGATTTAT	AAATTAAATT	CATCATTGCC	ATGTGTATAT
80701	AGAAAAAAAC	AGTGTATATA	CGGTTCAAGT	CTATCTGTGG	TTTCAGGCAT	CCACTGGGGG
80761	TGCAGTTTAT	TAAACATGCA	TTTACATTAG	TCTCCCTTTT	GGGAGACTAA	TAACTGAGA
80821	TGTTGTAACG	TGACTTTAAT	AGCAGATAGA	GCTAATTTTC	TCTCATTACT	CTTCTTTTTT
80881	AGAATTTTCC	TGGTTATTCC	ATTTTTTTAT	TTTCCATATG	TATATTAAGA	TCTCTTCCAC
80941	CTCCTCCTGT	TTCTCCATCT	CAACATCAAA	CAATTAAAAA	AAAAAAAAG	GCTGGGCGCG

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84241	ATTTAAGAT	TAGGTGATC	TGCCTGGTTC	TCAATTTGAC	ACCCTTTCTC	TCTAAACATG
84301	AATGAGTTCC	AATCATATTT	ATTCCATAAGC	TATCACAATC	AAATATATCTA	CAGATCTGTG
84361	GAATATGCCA	AAAGTTAAGG	TGAATAATTA	AATTTATAGG	TATTTGATAG	TTTGCTAGT
84421	TTTGATCTG	TGAGTGAATA	TAACATATCT	CTATGTCCG	TAATTTAGG	TTTGCTAGT
84481	AGGTCCACA	TATGTAAATT	TAAATTTT	AATAGGACA	TTTAAAGT	TGAATAAGT
84541	AATCTAATTT	AATGATTTGA	ATCCAGTGA	ATTAAGGAT	TTTAAAGT	TGAATAAGT
84601	ATTAATAAT	TAGATTTTGA	ATCCAGTGA	ATTAAGGAT	TTTAAAGT	TGAATAAGT
84661	TTACACTTA	AGCACTATCT	TGACAGGAT	AGCTTTTATA	CTCTGGGAT	ACACAAGAT
84721	ATGTTAGTG	GCACTATCT	TGACAGGAT	AGCTTTTATA	CTCTGGGAT	ACACAAGAT
84781	ATACTTGCTC	TGACAGGAT	AGCTTTTATA	CTCTGGGAT	ACACAAGAT	TTGATCTG
84841	CTGAACCCA	GGTATGTTCT	CTGAACCCA	GGTATGTTCT	CTGAACCCA	GGTATGTTCT
84901	CCCAACGGG	TCTCTTGTG	CTGAACCCA	GGTATGTTCT	CTGAACCCA	GGTATGTTCT
84961	GCAATAAGGA	GCAACGGG	TCTCTTGTG	CTGAACCCA	GGTATGTTCT	CTGAACCCA
85021	TGAGAAATTTG	GGGACCAAG	TTTAAAGG	TAATTTGAT	TTTAAAGG	TAATTTGAT
85081	GAGTGTCTGCT	TGGTGGGTC	AGAGATGA	TTTAAAGG	TAATTTGAT	TTTAAAGG
85141	TAAATCAGTT	CCTGGGAGTG	GTGGGGTG	GTGGGGTG	GTGGGGTG	GTGGGGTG
85201	ATATGGGTG	TGCCAGCTTA	TCCATTTGT	TCCAGGCTG	CAATAATAGT	CAAGCATTA
85261	TCTTAGGTTT	TAAATAGTG	ATTTATCC	CAGGAGCAAT	TTGAGGTTT	GAATCTGTA
85321	GCTTCCAGCT	GCATGACTCC	TAAACCATTA	TTTATATCT	TGTGGCTAAT	TTGTTAGTCC
85381	TGCAAAAGCA	GTCTGGTCCC	CAGGCAAGAA	AGGGGTTGT	TTCTGAAGG	GCTGTTATG
85441	TTTTTGTTT	AAAGCAAAAG	TATAACTTA	GCTCTCCCA	AAAGTTAGT	ATCCCAACT
85501	CAGAAATGA	AAAGCAAGCT	TGAGTTAG	ACGTTAGAT	GGAGTTTCA	CTGTCCACT
85561	CTTCACTGT	AATAATTTT	TCAATTTT	TTTTTGCA	GGAGTTTCA	CTGTCCACT
85621	CACCTACAT	CAGGCTCTCT	ACTAGCAAT	TCCAGCAAT	CTTAGGCTCA	GACACCACT
85681	TGCTCTCTTA	TCCACCTCTG	AGGAGTCCAA	TTCTGAAC	AAAGCAACT	ATATATGAT
85741	GTATGAAC	ATATATGAG	AGGAAATTA	ATATGATTA	CAATTTTAT	GTATTTAT
85801	TGATTAAG	ATATTAAGT	GTGACACTG	CTGCAATGA	TATCTGCTG	TAGTAAGAT
85861	TTGGCGAAT	TAGTGAAT	CCTGAAGCTG	AACCTCCACT	TCTGTAAAT	GGAGACATG
85921	AGATTAAT	CCTTACATG	CTGAAGTAA	AAATTTAC	AATATTTAG	ACCAACACT
85981	TCAATGTA	CCTGGCTCT	GAAGACTAT	CAATGACAT	TAGTTTAT	TTTATAT
86041	TAAATGATCC	TTGTTTCT	TGTTATTT	TTCTACAT	TGCTCTCT	AAAAAGAGT
86101	AATATCTAAT	ACAAATTAAG	TTAAACAGC	TTGACAGAT	GTCCCAAGG	ACTCACTTA
86161	CCACTGAAGT	GTCAAAATG	CTTAAAGTT	ACTTATAT	CTCTGACTA	ACCTTTCTC
86221	TTCTGGTAT	TCTTCTGAG	ACAGCAAGC	CATCCAAAG	ATCATGCA	CAGTGGTCT
86281	CCAGACCA	TAAATCTCA	CTCAAGG	GCTCTGCA	AGATGTTAT	GAATAGATG
86341	GTAGGATCT	GAAGAAAGCC	ACGTAAAT	TGCGGCTG	TCTGGGCTG	ATTTATCTG
86401	AAGCTAATGA	AACACAAGT	TAAAGGCTG	TACTTCCAG	GTGCAAGAG	GGGCTTACA
86461	AATGTGTAG	TTTGTCTCT	TCTCTCTCT	TGATTTTAA	ATTGCAAT	TTAAGTACT
86521	TTAATCAGG	ATGTTCAAG	CTGCTATTT	CATCAATCC	TCTTTTAT	TAAATCACT
86581	ATTGCTGAT	TATGTTAG	TCTGATGA	AATATTTG	ATTGAGTA	GAGAAAGTT
86641	AGTTGAAGT	GTATCTAGT	TGGGATAT	AAGTTACG	ATTGCAAT	GTGATCAT
86701	GTACTTCAAT	CGTTGCCAG	CAATCTGAC	TAAAGATG	TTCAAGAG	CCGGGGCTG
86761	TGGCTCAAG	CTGTAACT	AGCACTTTG	GAGGCTGAG	CGGGCTGAT	ACGAGGCTG
86821	GAGATCCAG	CCATCTTGG	TAAACAGG	AAACCTCT	TCTACTTAA	ATAAATAA
86881	TTAGCCCCG	GTGTTGGG	GCGGCTGAG	TCCAGGCT	TTGGAGGCT	GAGGAGGAG
86941	AATGGCATGA	ACCTGGGAG	CGAGGCTG	AGTGAAGCT	GAITGGGCT	CTGCACTCA
87001	ACCTGGGAG	CACAGGAG	CTCCGCTCA	AAAAAATA	GAITGGGCT	CTGCACTCA
87061	ATGTTCTTAC	TGCTCACTG	AATACTCA	CTAAATCT	GGCAAGATG	GCTTCAAGG
87121	AAAAATGAT	GACATCTAG	TATCAAAAC	ACATCTCC	CACGAGAGT	AGGTCTAGAT
87181	TGAGAGTAG	AAACGTTAG	AGCCAGAG	TAGTCTGAA	AGATTTCT	CAAGTTTAC
87241	AACTTACATG	TGAAGAGAG	TTAACAGAG	ATTTTCCAA	TTGAATAA	ATCTTAA
87301	CTTACTTGAC	ATTACCAAT	ATGTGTTT	AACTGAAAT	ACTTCTAAG	TATGAATAA
87361	ACATATATC	ATCAGCCAC	CTGAGGAA	GATTTGAAT	TATTTCCAT	ACCTATAGAC
87421	AACATTAACA	AATAATTC	ATCTGAAG	GGAATCAG	TATTCAGTCA	AAACTACAG

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90721	CCCCGACACC	GGCATCTCAT	CCAAGGCCAT	GGGGATCATG	AATTCCTTCG	TCAACGACAT
90781	CTTCGAGCGC	ATCGCGGGCG	AGGCTTCTCG	CCTGGCTCAC	TACAATAAGC	GCTCGACCAT
90841	CACCTCCAGG	GAGATTCCAGA	CGGCTGTGCG	CCTGCTGCTG	CCTGGGGAGC	TGGCTAAGCA
90901	TGCTGTGTCC	GAGGGCACTA	AGGCAGTTAC	CAAGTACACT	AGCTCTAAAT	AAGTGCTTAT
90961	GTAAGCACTT	CCAAACCCAA	AGGCTCTTTT	CAGAGCCACC	TACTTTGTCA	CAAGGAGAGC
91021	TATAACCACA	ATTTCTTAAG	GTGGTGCTGC	TGCTATTCTG	TTTCAGTTCT	AGAGGATCAA
91081	CTGGAATGTT	AGCGAAGACA	AGTTTTAGAG	CCAAGGTTAA	CTTGGACGGG	GCCGTGCGCG
91141	GTGCCTCTTG	CCTTTAATCC	CGGCAATTTG	GGAGGCCGAG	GCGGGCGGAT	CACGAGGTCA
91201	GGAGATGGAG	ACCATCCTGC	TTAACACGAT	GAAACCCCGT	CTCTACTAAA	AATACAAAAT
91261	AATTAGCTGG	GCGTGATGGT	GGGCGCCTGT	AGTCCCAGCT	ACTCGGGAGG	CTGAGGCAGG
91321	AGAATGGCGT	GAACGCGGGA	GGCGGAGCTT	GCAGTGAGCC	GAGATCGCGC	CATGGCACTC
91381	CAGCCTGGGT	GACAGAGCGA	GACTCCGTCT	CAAAAAAAAAA	AAAAAAAAAA	AATTAAAAAA
91441	ATATGAAGTT	TTGAAGCAGA	AATTATTTTG	TCGTATGTTT	TTTCATAAAT	TTTTTGCTTG
91501	CCTGCCTTCT	TCCTTTGTTA	CAGAACTCCA	ACACTTACCC	AAAGGTAGCT	GTTGGGTGAG
91561	GGTTTCTGTA	CTATAGTCCC	TTCTGTGGTG	GCCAGAAAATA	TGTTACAGGA	AAGAGGTCCC
91621	CATCCAGACC	CCAAGAGAGG	GTTCTTGGAT	CCCGCGCAAG	AAAGAGTTCA	GGGTGAGTCC
91681	GCAGTGCAAA	GTAAATGCAA	GTTTACTAAG	AAAGTAAAGT	GGTGAACGGA	CAACTACTCC
91741	ATAGACGGAG	CAGGACATTC	CCGAAAGTAA	GAGGAGGAAG	GCATCCACCC	TAGGTACAAT
91801	ACTTGATATAT	ATGGGGAGAT	GTGCTCTGCT	ACAAGTTTGT	GATAAAGGAT	TAATTTTCTT
91861	AGTTACTATA	TTTTGCAAGA	ATCAACATTA	TTATCTTTAA	ACAAAATTAA	GAATGCCTTT
91921	GTTCTCCAGA	TATAGGGATA	TCTGGACACT	CCTAAGTCTG	AGTCTGTTTA	GTAAACATTA
91981	TTTATTTGTT	CCCTTAACCG	TAAACATCTA	GAAGCTAGGA	ATGACTGACT	TTCTGGGAAT
92041	GCAGCCCAGA	AAGTCTCAGC	CTCATTTTCC	TAGCCCTCAC	TCAAAATGGA	GTTACTCTGG
92101	TTCAAGTAAC	TCTGACACTT	TTCTTCTCTT	TTTTTCTTCT	TTTTTCTTCT	CTTTATTTTT
92161	TATTTTTTAT	TTTTGAAAATA	AGAAATCAAG	AATACTTGAT	GTTTCATCTA	AAACAATACC
92221	CATAATTGAT	AAGCCAAAAC	AAAAACCTAG	GTCTTCTAAC	TCAAAACTAG	GATGTTTTGC
92281	TGTCTCTGCT	GATACTCGGC	TGATCGTTAA	TAGGTAATTA	ACAAACAAGC	CTTGCTATGT
92341	CCCCCTCAGT	TTATTACCAT	TAGATCATAT	GCCTACTGTC	AATCATATTA	ATCCACAACCT
92401	ATGCATTTCA	CAAAACTTGC	CATAAAAATT	CACAGGTTTC	CCGCTTCCCT	CGAGTTTTCA
92461	TTTCCGAAGG	GTCCCATGTA	ATATAAAACT	TATATTAAAT	ACATTTGTAT	GCTTTTCTCT
92521	TGCTAATCTT	TTTTTTTTGTT	TTTTGAGACT	GAGCCTTGCT	CTGTCACCCA	GGCTGGAGTG
92581	CAATGGCGCG	ATCTCGGCTC	ACTGCAACCT	CCGCTTCCCA	GGTTCAAGCG	ATTCTACTGC
92641	CTCGCCCTCC	CGAGTAGCTG	GGACCACAGA	TACGTGCCAC	CATGCCCCGC	TAATTTTTGT
92701	ATTTTTAGTA	GAGACAGGGT	TTCACCGTGT	TGGCCAGGAT	GTTCTCAATC	TCCTTACCTC
92761	GTGATCCGCC	CGCCTCGTCC	TGCCAAAGTG	CTCGGATTAC	AGACGTGAGC	CACTGCACCC
92821	GACCAATCTG	TCTTTTTGTA	GAGGGGCCTC	AAGCATGAAC	TTACTGATGG	GTGAGAAAAA
92881	CAGAATTTTC	TTTTCCCCTA	CAATAATAAC	ATTAATTGTA	ATGTTATCAT	TCAGGACATT
92941	TTGGTGACCA	ATCTTACAGA	AATTTTATCT	TGTGCAAGTC	TATGCAAAAC	AAATATGTAA
93001	TCTTCTATAA	GTGAGATTGT	ATTTCACTTT	TCTAGTATCC	TTTTAAATTA	ATAAAAGAGA
93061	TTCTAATGAT	TATTTTCATT	ACTGCATTTT	ATTGTAGGGA	AGTAGATAAT	TGCCCTTTAT
93121	TCACTGACCT	TCGCTTTTTA	AAAATTTAAA	CCATGTTACC	ATGAAAATGC	TTTTTCAGTAT
93181	TTCTCTACAC	ACAAGATTGC	TGTAAGGGCA	AAAATAGAGA	TAGGAATCAT	GCATCCATTG
93241	ATATACATAT	TTTGATTTTT	AATACATGTT	ACCAAGTTGC	CTCCTGAAGG	TCTGTTTACA
93301	CTCTCACCAA	CAGGGTGTTT	TTTCTTGACT	TCCACAAATG	CTCTTGAACA	GTGGGTGTGT
93361	TAGTCTGTTT	AAATTGCCGA	CATGAACAAT	TAAATCTCAT	TGTTGTTTTT	ATTTTAAAGA
93421	CAATTATTGT	TTGAGACTGC	ACATTTTGAT	AATAACATTT	CTTCTATTAT	GGTTTGATTA
93481	CTCATGATTC	TTGCCCATTT	TCTTTTGGA	TGTTGCCTTA	TGTACATTAT	TTTAAATAGA
93541	TAGCTCCATG	TATTTAAAGA	TTATTAAGTT	TGAGGGCTTA	TGATATGTCA	GTTACATTTT
93601	TAAGATTTTT	TTTTTTTTTT	TTTTTGAGAC	GGAGTTTCAC	ACTTGTTGCC	CAGGCTGGAG
93661	TGCAATGGTG	CGATCTCGGC	TCACCGCAAC	CTCCGCCTCC	AGGGTTCAAG	CAATTTCTCT
93721	GCCTCAGCCT	CCCCAGTAAT	TGGGACTACT	GGCAAGCGCC	ACCACGCCTG	GCTAATTTTG
93781	TATTTTATT	AGAGATGAGG	TTTCTCCATG	TTGGTCAGAC	TGGTCTCGAA	CTGCCGACCT
93841	CAGGTGATCC	ACCCGCCTCG	GCCTCCCAAA	GTGCTGGGAT	TACAGGTATG	AGCCACTGGG
93901	CCCGGCCACA	TTTCTAAATT	CTTTATAAGT	ATAAATTCAT	TCAATCTTCA	CCAAAACCTCA

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97201 TTTAAGTCTT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT
 97261 ATGCCAGGCG CTGTTGGTT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT
 97321 CTCATCCATG GCTCAGTGA GTTATGAG GTTATGAG GTTATGAG GTTATGAG GTTATGAG GTTATGAG
 97381 TCTAGTCTGA GTTATGAG GTTATGAG GTTATGAG GTTATGAG GTTATGAG GTTATGAG GTTATGAG
 97441 ATATCCAGG CTGTTGGTT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT
 97501 TTTCTGAAC TTTCTGAAC TTTCTGAAC TTTCTGAAC TTTCTGAAC TTTCTGAAC TTTCTGAAC TTTCTGAAC
 97561 GTATTTATCC TTTCTGAAC TTTCTGAAC TTTCTGAAC TTTCTGAAC TTTCTGAAC TTTCTGAAC TTTCTGAAC
 97621 ATTCTCTGGA TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT
 97681 TTTCTCTCA CAGCAGTCTA TTTCTCTCA TTTCTCTCA TTTCTCTCA TTTCTCTCA TTTCTCTCA TTTCTCTCA
 97741 GCACCTCCCA CTACAGAGCA AGTACAGAGCA AGTACAGAGCA AGTACAGAGCA AGTACAGAGCA AGTACAGAGCA
 97801 CTATGCTCCC TGCACTCTGA AGTACAGAGCA AGTACAGAGCA AGTACAGAGCA AGTACAGAGCA AGTACAGAGCA
 97861 TGAATCAATA ATGCTGAGTA TACATCTCCC TACATCTCCC TACATCTCCC TACATCTCCC TACATCTCCC
 97921 ATTGATCAAT CTGTTGGTT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT TGAAGCAGT
 97981 ATATGACAGAA GCTGACAGT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98041 ATATGCTCTT CAGGAGCAGT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98101 CCTTTCAAA GAAATGAGC TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98161 ATCATTAATA TTTGAGAGG GAAATGAGC TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98221 AGAAGACTTG GAGAGAGGCA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98281 TTTCTCTGAA TCAATCTCA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98341 TTTCTCTGAA TCAATCTCA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98401 GCTCAGTCTG AACCTCTGTC TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98461 AGCTGGGATT ACAAGGCTCC TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98521 CTGGGGTTTC ACCATGTTGG TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98581 GCTTGGGCTT CCAAGAGTGT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98641 GATTTTCTTA CACTCATGTT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98701 ACAGATAGAA GTAGTAGATA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98761 ACTCCATCTG CTGCTATCTC TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98821 ATCTGCTCTG ATTTTAGGTT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98881 CCGGCGCCAG GAAAGAGCTT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 98941 ACACAGATTA ACTGAGAGAA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99001 TTAGAATTA GACTGAGAGG TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99061 GATTAACAGC TGATAGAGG TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99121 GCTTGTCTG TCAAGATCTC TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99181 GGACAGAGCT CTCTTTAGA ATGAGGCTG TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99241 GAGTAACTCT TTTAGGTTT ATGAGGCTG TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99301 CTACCTTGAG GAGGATTTCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99361 ACAGGAGAGC AGAAGGTTGT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99421 TTTGTGTTA TGAATGTTT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99481 AGTGTGTTA GAAAGTTGAG TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99541 TCTTGAAC TGAAGGAGCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99601 AATCAAAAT TGAAGATTA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99661 TCCCTGGGGA ATCTCATCA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99721 GTTAACCA TCTTAACAGA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99781 ATTTCTCC AATATCATAT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99841 TATGAATCA GAGAGCTTAT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 99901 CTGCTCTCC ACTCTCTCC TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 100081 CCGGCTTTT TTTTCTTTT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 100201 AGTGTGTTA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 100261 TTTAAGATTT GGTGAGAGT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 100321 ACAGGCGGCT GAAAGTCAAA TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT
 100381 TTTGACAAA ATCTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT TTTAATCT

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103681	ACTGATGTAC	CATACTAAAA	TCGCCTGACC	AACTGTCAAC	AACAACAAAT	CACACACACA
103741	AAAGATTAAA	TTTGAATTGC	ATCGTTTACT	TAAATTTCATT	TGTGTTCCAG	CTTTTAATAA
103801	GGCAGTTTTT	GGTTTATAAA	GTAATATTTG	CATTTTAAAA	ATTATGAAAA	TGAATATGTC
103861	AGTTTGTGTTT	ATGATTTCGTT	TTTCTTGACT	CTTATACAAG	CGACTCTAAC	TGGCATAGAC
103921	ATTTGTTATC	CACAGACAGT	ATAGATATGT	TAGAGATGCC	AATGGACTTG	GTCTATGCCA
103981	AGGTGACTAC	TCACAAGCTC	TGGGCCCAGC	TGAAGGTCAA	GTATTTTTTT	TCCAGTTATA
104041	GATGTGCTGG	ATCTGATGTA	TAGCGCTTGA	CTTTTTATAT	TTTCTTTATC	TGTAGGAAAC
104101	AAATGTGTTG	GAGGTACTGG	GTCTAGCGAA	TAGCATAAAA	GAATAAAGTT	ACATTACTGT
104161	CTGAGGATCA	GATGGACAGG	GGGTGGTAGC	TCAGTCCAGC	TATTTTCCAC	TCCCTCACTT
104221	ACATTCTTTG	CCCCCTCCTC	AACAGAACAA	GGATTCTGCT	GTAACCTCTT	ATTGACAGTT
104281	GATATTTAAA	AATTAACGAA	TGGATGAAAT	TCTCATTTGT	GAAAGAAAAT	TTATTGAGCA
104341	TTTTGTATTT	GTGAGTAGTG	CAAACATTTT	AATATTATAT	TAAGAATCTA	TTGTTTTGTA
104401	TTAGAGGAGT	AATTAAGGAG	AGATTGGAGA	CAAAAAGGGG	GTGTTGTTTG	CAGAATATAC
104461	CATCCAAAAA	TAGACCACTG	TGGGATCAGG	ATTCTTTTGA	GCTAAAGGCA	CTTCAAAAAA
104521	AGCATTCAAG	AAGGGAATTC	TTCTAAACTT	TTCTTCTGTA	AAACAGGAGA	TAAAAGTTCC
104581	AATGTGAAAA	ATGCTCTGCT	TGTACCAGGT	GAAAAGACAT	ATTCCTCAGC	CCAGAGGCAT
104641	AGATGAGATA	ATTCTGCACA	AACACAGCAG	GGAGTCATAG	CCGAGAGACT	TCTATACACA
104701	AACAAACCTT	GTTAAAATAA	TCATATATTC	CTTTAATCTC	CTCATATGGT	TTACTTTCCC
104761	ACAATTGCCT	CTCTTTAACT	TAATGTGAAA	GCATTTAGCT	TTTGCCATTT	CTTTGGGGCT
104821	TCACTTTTTT	ATGAGGGTTC	TCCTGTCCCA	TAAAAATTAC	ATTAAATACA	TTTGTATGCT
104881	TTCATTCTGC	TAATCTGTTT	TATGGCAAAAT	GAATTATCAG	GTCCAGCTGG	AGACCCTAAC
104941	AGAGTAGAGG	TAAAATTTTG	CCTCCCTACA	AGATAGAGAT	TGTGTGCATT	AAATGTTGTT
105001	TGTTCCAGT	TGTTCAAGTT	GTCAGGCCCTC	TGAGCCGAAG	CTAAGCCATC	ATATCCCCTG
105061	TGAAGTGCAC	GTATGCCTCT	AGATGGCCTG	AAGTAACTGA	AGAAACACAA	AAGAAGTGAA
105121	AATGCCCTGT	TCCTGCCTTA	ACTGATGACA	TTACCTTGTC	AAATTCCTTC	TCCTGGCTCA
105181	TCCTGACTCA	AAAGCTCCCC	CACTGAGCAC	CTTGTGACCC	CCACCCCTGC	CAGCCAGAGA
105241	ACAACCCCTT	TTGACTGTAA	TTTTCCACTA	TCTACCCAAA	TCTTATAAAA	CGGACCCACC
105301	CCATCTCCCT	TCGCTGACTC	TTTTCGGACT	CAGCCCGCCT	GCACCCAGGT	AGAATAAACA
105361	GCCTTGTTGC	TCACACAAAC	CCTGTTTGAT	GGTCTCTTCA	CACGGACGCG	CCTGAAACAG
105421	TTTAACAGGG	TTTTTCCTGC	CCAGTCACAA	CAAAGTGATG	TTATGCTGCA	GGCTGAAGTT
105481	TACAGCTAAT	GCTGTTGAAG	TCTAAAATCA	GTTTTGGTTT	GTTAGATTTG	GGTGAGATGG
105541	CTAAGATTCT	CAGAGAAAGA	AGTCAAGTTT	GGGGTGCAAT	TTTCAGACTT	AAAAATTTAG
105601	CAGTAGCCCT	TGCAGTTTTT	CCAAATAGAAG	TGATTTAAGA	ATGTTTTTCA	AAAAATTTAA
105661	ACAACAGTGA	GAAGCGTGTA	TGGAGAGTTG	AACTACACTC	CAGACTTGGC	TATAGGAAAG
105721	CACGAATGCT	GCTATTGTAT	TGCACCTTGG	AAAAGAGAAC	AAAGGAATAT	TTTCGGACAA
105781	TTTTAACATG	TCACATATGA	AAAGCTAAAC	GGAATCTGTC	AACACCTTGT	ACGTTATTAC
105841	AGGCTGTGAT	TTTAAAAAAA	CAATCCTTAC	TAATACATAC	ATAGTTGCTG	CTAGCAATAT
105901	AGTGTTGGGA	GTAAAAACAC	GAAAATGAGA	GTTTCAGGACA	ATATCCCAAC	TCTGAGCAGA
105961	TTTTTTTAAG	TAGTAACATC	TAAAATTTAA	CCATATTATG	TAATATTTAT	TTCTTTTCCA
106021	CAGTCTCTTC	TCATGCCTCG	TTACATTAG	CTAATTTAAA	GTCCCCTGAG	TATCATCATA
106081	ACCCGATTTA	CAGATGAAGG	CACGGTTGCA	ATGAGCTATC	ACCCTCTTCT	GAATGAGACA
106141	GTACAGTGTG	AAGGATAGCA	AAACTCCACT	CCCATCCTCT	TAGGGCTCTG	GCTGGACCAG
106201	CAAATTAAAT	TAATGTAAAA	TGGATTAACA	GGAGAAAGGT	ATATGCATTT	ATTTAACACA
106261	GGTTTTACGT	GACACAGGTG	CTCTCATAAG	GTAATGAAAG	CCCCAAAAAA	GCAGTTAGCT
106321	ACTTATATAA	TGAATTGGAC	AATTAGTAAA	ATGTAAAAAT	GCGCTAAAGC	AAAGGGATTT
106381	AGGCTAGAAT	ATATAACTGT	GTAGAGAAGC	GCCCAGCAAG	GGCTAGTGCA	AGGTTTGTAC
106441	AGAATTCTCT	TGGCCTCAGC	CTCCTATCCT	TGAGAAGAAT	GTTGCTTTTT	TTAAACTACA
106501	GTGAGAACAT	CTTTCATATG	AGAAATTCAC	CTACTGCTTC	TAAGAAACAG	GTCAGCTTTC
106561	AAGAAAACAT	AAGGCCAGAG	TGATCTTTTC	ACGCCTGCTC	TTTTAAGTAC	CTTTGAATAG
106621	TCAATATGTC	TTCAAGCACT	TGAAAGACTT	AAAAAGTTTA	CCACTCCGGC	ATATTAGTGA
106681	AAGCCCTTAA	TATAAGCCCT	TATTAAAAAT	CTCAGTCGAG	GGTATAAATT	CAGATTCAAA
106741	TAGTAGTGTC	GTAAACGGGA	GGGAAAAACT	AAAGGGATTA	AAAAGTGAAA	CTATTGTGTT
106801	CTCCCTCGCA	GTCCTTAGGT	CACTGCCCCC	CGAGGGGCGG	AGCAAAAAGT	GAGGCAGCAA
106861	CGCCTCCTTA	TCCTCGCTCC	CGCTTTCAGT	TCTCAATAAG	GTCCGATGTT	CGTGATAAAA

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110161	ACAAAATA	CATATACTA	GATATATTT	ATTTGTT	TGTTCTCT	CCCCAACTG
110221	GAATATATTT	TTGAAAGTA	GGACTTTGT	TTGTCCCA	AAGTATCCCT	AGCACTTGA
110281	ACAGGGCTGA	CGTTTAACT	GTAAGTATG	CTCTCCCA	AGCCCACTGA	CAATCAATTC
110401	CCCATCTCAT	TCCTTGACCT	GCACTGCTCT	GAAAGCACTA	GGGTGCACTT	TCTCTTTAGA
110461	AAATCTGGGG	GATAGTCTAG	GGGTTGCAAA	TTAAGCACTA	TTATCTTTGT	TCTGAACTGA
110521	GACTGCACTGA	GTGTTAGGAC	TGAAGAAAGG	CCAAGGTTGT	GGTGGGTATG	CCTAAGATGA
110581	GATAGCACTA	TCAAGCAATG	TATGTAACATA	GCAATGCTAT	GAAAGGCTAG	GCAAAACGTA
110641	ACAGGAGCTA	GTGTTGGCTT	ATTGTTAGCA	GGCAATATAC	TCCATATATG	GTAATCGATA
110701	TCCACACACC	CCTCTACAT	GACTCTGGA	GGCAATATAC	GGCAATATAC	TTTCTTAAT
110761	TATGTACCC	AATGATTTCA	ACAATATCTG	GCATATGAGA	TCAATTAATA	TCTTTAAAT
110821	ACCACTAAG	AAAGACATTA	AATGACCCAC	CCTCCATACC	AGGCTCATTT	TTGCTCTCT
110881	GATTCCTGAA	ACTATCCAGA	ATGCACTAT	GAATTCCTCT	CATGTCACT	TTTAAATTA
110941	GCCAAGCTGG	GTACTTGTGT	AATTCCTCAA	GAAATCCTGG	ATGAAACTG	TCAGGTGGA
111001	AACAGGACCT	CAAATTAAG	AGACATTCAT	CACCTGAAGT	AACATCGTA	GGCTGAATC
111061	AGTCCCTATA	CAATGGTACC	AAAAAGAGCA	CAATGAGAGG	CATTGTGA	TATTTACTA
111121	GATGAGAGTA	AGATATTTCC	CTATCAGCTA	ACCTGAAGT	CACATCCCTT	TTCCAGCTGA
111181	GTCTGAAAG	TAGATGTACT	TAAGTGAAC	ACATAACTGC	ATCAGGAACA	TCTTTAAAA
111241	CTAGGCTTAC	CATGGCTTGA	CTGGACAAAC	CCCAGGCTTC	CAGGTTTAC	ACAGGTGGCC
111301	CTTACAGAC	CAACATTTGC	TATGCTACCA	ACCTCATGTC	CTACCACTCT	GCTTGATCA
111361	TTTCTCTCT	TGCATATATA	AAATATATAG	TGATATGATA	TATGTATAT	TATGTATAT
111421	TAAATGATCA	CAAAATTTGC	CCACTTTAGG	TACAGTTTCA	TGAATTTAC	CGTGTCTCT
111481	TAGTTGTACA	ACCATCATCA	CAATTTAAT	TGGAATAT	TCTATCACCC	AAATTCAT
111541	TTCTGCGTAA	AGGGGAAATA	AAAAAGTTA	ACTGCTGAAG	GGCCGCGTAA	CACGTGAATA
111601	GGTGCCTTTT	CTCTCTAATA	CAGATTTTAA	TCTCCCTGTA	ATTAAGTGT	CTGGTATTC
111661	CAGGAGTCTG	AATAGGGTT	CAATTTTCA	GGTCTTTTAA	ATAGAATAA	ACTGTATGG
111721	TGGCGATATA	TTAGATATG	CTCTCAGTAC	ATGATTTGAG	GATACCTTAA	TGTCCTCTG
111781	ATTTATTTCT	ATAATCGCTA	AAAGATGTT	TTTTTTTCT	CTAATAACAG	GTTTTGTTT
111841	TTTCTCAATA	AGCTTCTTAG	CTTCCCTCTC	GGCTCCCTGG	CTTGCTCTAG	GAAATATTA
111901	CTCATCAGTT	CTGATTTGTT	GACAGCTACG	AATGGCCCTC	ATTGATTTGG	CAGGCTCTCT
111961	TTGTCCTTTG	GAACTTAATA	CAAACTTTTA	ACACTACTTT	TTTTCCACTC	TTTCTTACA
112021	GTGGAATAT	CGTGCCTCCC	CTACCCATAT	GTAGTGAAGT	ATGGAAGTCC	TTCATGATCC
112081	CCTAATCTTT	CCTTTTAGG	ATGTCAGCTC	AGTATCATTC	ATCTTAATTA	CACATTTGAG
112141	TTCTTGACTT	AATGGATACA	GCTCTCTCTT	TGTTAGTTG	GGGGGCTCTG	AAAAAGGCTCT
112201	TTGGTTCAAGA	AATGCAAGCT	GTGGAATAAT	CAGCAACCTT	AACCGCCCAA	GCCATAAAG
112261	GTGCGTCCCT	GGCGCTTAA	CCGTTAGAC	ACGTCCATGG	CAGTGAAGTGT	CTTGCGCTTG
112321	GGGTGCTCCG	TATAGGTGAC	AGGCTCAGG	ATCAGCTTCT	CCAAAAACA	CTTGAAGCAC
112381	CCGCGAGTCT	CCTCGTAGAT	CAGACCAAG	ATCCGCTTCA	CACCGCCACG	CCGGTGGCG
112441	CGCGCGATGG	CGGCTTGGT	GATGCCCTGG	ATGTTGTAC	GCAACACCTT	GGGTGGCG
112501	TTGGCACCCC	CCTTACCCAA	ACCCTTCCCG	CCCTTACCA	GTCCAGACAT	GACTTCCCA
112561	GAAAGCAACC	AAGAGCAAGT	CAGAGCAATG	GAAACCCGATC	TTTATATATC	TACGTTACCC
112621	CTGCCCCCAC	CTCCAGCCGA	CACGTGAAGT	GAAAGCCGAG	CAGGGGGGAA	ATGTGACCC
112681	TACAGTCCCG	TCTTTAAC	CGCTCCCA	GGCCGAGGA	ATGGCGATGG	112741
112741	GGAGGGGTGG	GGAGATGAGG	GTGGACCA	GCAGGCTTGA	CCAATGGGCT	TTATTTCTT
112801	AACAGAGCTA	CAGGCTTGA	GGAACTGGT	TAAAGATTA	ATGTAACCC	ATTGTGACTC
112861	CAGAAATTAAT	TTAAGTCCAA	CTTTTCTT	TAAGCAATCT	CTCTGTGCGC	CAGACTGAG
112921	TACATTAGAG	CCATCTCGAT	TCACTGAAC	CTCTGCCCTCT	CAGGTTCAAG	TGTTCTCTCT
112981	GCCTCAGCCT	TCAAGAGTGA	GCTGGGATTA	CAGGCTCTG	CCGTCCGCGC	CGGCGTGT
113041	TTGTATTTT	CGTAGAGACG	GGATTCGCGC	ATGTTGGCA	GGCTGATCC	GAACTCCCTGA
113101	TTTCTGGTAA	TCCGCCCCCG	TCAAGCTCTC	AAAGTGTG	AATTACAGG	GTGAGTCA
113161	GGGACCGGCC	GAAATCGAT	GGTTTGAAG	CCTTCAAGT	CATTAAACG	AAAAAGTCTC
113221	CCAATGCAAT	CCCTTTGTC	TTAAATTTGT	TTCTTACAG	TACTTACTT	GAAAAAGTGG
113281	TGGCTCTGAA	AAGAGCCCTT	GCTTGAAC	TCAGAGAG	CACAGTAATC	ACGCCCTCTC
113341	TCCGCGGATG	CGGCGGCGA	GCTGATGTC	CTGGGATG	ATAGTACGC	GCTTGGCGTG

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116641	CAGGCTGCTT	CCTCCTCTAA	GGAGCGTGGT	GGTGTGTCGT	TGGCAGCTCT	TAAAAAGGCG
116701	CTGGCGGCCG	CAGGCTACGA	CGTGGAGAAG	AACAACAGCC	GCATTAAGCT	GGGCATTAAG
116761	AGCCTGGTAA	GCAAGGGAAC	GTTGGTGCAG	ACAAAGGGTA	CCGGAGCCTC	GGGTTCCCTC
116821	AAGCTCAACA	AGAAGGCGTC	CTCCGTGGAA	ACCAAGCCCG	GCGCCTCAAA	GGTGGCTACA
116881	AAAAC TAAGG	CAACGGGTGC	ATCTAAAAAG	CTCAAAAAGG	CCACGGGGGC	TAGCAAAAAG
116941	AGCGTCAAGA	CTCCGAAAAA	GGCTAAAAAG	CCTGCGGCAA	CAAGGAAATC	CTCCAAGAAT
117001	CCAAAAAAAC	CCAAAAC TGT	AAAGCCCAAG	AAAGTAGCTA	AAAGCCCTGC	TAAAGCTAAG
117061	GCTGTAAAC	CCAAGGCGGC	CAAGGCTAGG	GTGACGAAGC	CAAAGACTGC	CAAACCCAAG
117121	AAAGCGGCAC	CCAAGAAAAA	GTAATTCAG	TTAGAAGTTT	CTTCTAGTAA	CCCAACGGCT
117181	CTTTTAAGAG	CCACCTACGC	ATTTCAGGAA	AAGAGCTGTA	GTACACAGAT	GAAATCCCCC
117241	AAGCAAATGC	AACACGCCCT	CAATTATATT	AGAATCACTT	GGAGAGTCGA	TAGAACTTTA
117301	ACATAGCCTC	ATCTAGTAAG	AATTTACTAC	TCAATCTATC	AAAGATAGCA	AGGTGAATTC
117361	AAATGCACCG	AGTTAAAAAT	GAGTTTTTAA	CTCACCTGGG	TTTCGGTAGC	CGGAAGTCCC
117421	GCGTCTCACG	ACTCCAAGCT	AATTAGTCAT	AACCGTATTG	AACCAAGGTT	GAAAGCCAGT
117481	CCCAGGCTTG	AGGCTTTTTA	TTATACAAGG	TTAAAGTGGG	GATATTGCGT	TTTGGGGTCA
117541	ATATTGCTAA	AGTAGCATTT	TCCGAAATTG	GGTGGTCCTA	AGAAATGCTT	CTGGGATAGT
117601	TGGCAAAATA	TATGGCTTAA	CCACGCCCTC	TCCACAGGAG	TGGCTAGCGA	GCTGTCTGTC
117661	CTTGGGAAGG	ACGGTGACCC	TGCTGGCGTG	GCTGGCGCCC	ACGTTGGCGT	CCTCTGAAAG
117721	CCCCGCCAGG	TAGGCCTAGC	TCGCTTGCTT	TCTGCAGCGC	CATCATGACA	AAGCTTTGAA
117781	ACGCAAAATG	CTTCTTTTGT	GCAGCGCCTT	ACCATGGGTG	CACTTACGGG	CTGTCGACTT
117841	GGTTTAGGCC	CTTGTCAGGA	CAAAGGAGCT	TAGTTTGTTG	GAGTTT TAGA	GCTGCAACCC
117901	AAAATCCCTT	GCTCGGTTTC	TCTGTTTTTA	GAAACGGAAG	CGCCCTGATT	GGATATTTGA
117961	AAATTACTGT	GCTTAAC TGG	ATCGTGTTTC	ATCAGTCTGT	CAGGATTTTC	AACCTGGTGT
118021	GAGCCACAC	ATTCAAAACT	GAAGATCCTT	TTCTCAGAAC	TGCCCTTTTA	AGCTTTTGCA
118081	ATTTTAATTC	TGGGGGTCAG	ATTTTAATAA	TTGGACTTTT	TTGTTTACAT	CTGACAAGAG
118141	TATATGATGA	GCCAAGTTTA	CTCACTTTTA	CTTAGTGCAG	TTCAATTCTA	AAAGTTTATT
118201	TTTGCGTGTG	TGCATATGAG	TTAATAATCA	GTTGTATTTT	TCAAACGGTC	TTTTTTTCAAT
118261	TGTTTTGCTT	AGCTCCTTCC	ATCGTCTAAA	GTCAGGGATA	CAGGCACATC	ACATCCCTGT
118321	TCCCCCTTCC	TCAAAC TAAT	ATGTAGCTAC	CTAGGTTTAT	CCTTTAAAAC	AAAAATTCTC
118381	ACCTATTTTT	GTGAGAAATA	TACATGTTTT	TCTTTGAACT	AAGTATTTTA	CATACACCTA
118441	TCTATATACA	TGCATACTTG	TGGTTTTTGT	TTTTTAAAAA	AAAAAAAAAA	AAAACACGTT
118501	ATCTTTTGAG	ACTGGGTCTC	AGTCTGTTGC	CCAGACTGGA	CTGCAGTGGC	ATAATCACAG
118561	CACACTGTAA	CCTCCAAC TC	CTGGGCTCAG	GCTATCCTGC	AGCCTCAGCA	TCCGGAGTAG
118621	CTGGGATTGC	ATGCACGCAC	CACCAAGCCG	GGCTTTTGTG	TTTTATTTT	TGTGGAGACA
118681	GTCACACCAT	GTTGTCCAAG	CTGGTCTAGA	AATGGCCTCA	AGTGATCATC	GACCTCCCAA
118741	AGTGTGGGA	TTACGGTCAC	TGTGCCTGGC	CTTGATGCA	TAATTGTTTT	GTCTTTTGAT
118801	TAGGGTTATT	AATTTAAAAA	ACAAAGCCTG	GACGCAGTGG	CTCACATCTG	TAATCCCAGC
118861	ACTTTAGGAA	GCCAGATGGG	CAGATTACTT	GAGCTCAGGA	GTTCAAGACC	AGCCTGGGCA
118921	ACATGGTGAA	ATCCCATCTT	GACAAAAAAT	ACAAAAAATT	AGCAAGGCC	AGTGGCACGC
118981	ACTTATAGTC	CCAGCTACTT	GGGAGGCTGG	GGTGGGAAGA	TGACTGGAAC	CTGGGAGGTA
119041	GAGGCTGCAG	TGAGCAGAGA	TCGTGCCACT	GCACTCAAGC	CTAGGTGACA	GAATGAGACC
119101	CAGTCTCAAA	ACAAAAATAA	TAAAAATTTT	TTACAACGAT	GTTATATACA	CTTCTGCATG
119161	TTGCTTTTCT	CTTAACCAAA	CTTTTCTAAA	ACCCTGTCAT	GAAAAAGAA	ATCCTTCACA
119221	TGGAATAGCA	TAAGTTATTC	ATCCATTCT	TATTGATAAG	CATTGATGTT	TCCAGTTACC
119281	ACTGCTGAAC	ATGGTGCAAT	TGAATAGAAT	TCCAGGGCTG	AGATTGCTAG	GTTTTAGGTT
119341	GTATTTTATT	ATTTTATTTA	TTTATTTATT	TATTTAGACA	GAGTCTTACT	CTGTCAACCA
119401	TGGTGGAGTA	CAGTGCCATG	ACCTCAGTTG	CAACCTTTGC	CTCCTGAGTT	CAAGCGATT
119461	TCATGCCTCT	GGTCTCCCGA	G TAGCTGGGA	TTACAGGCAC	CTGCCACCAG	GCCTGGCTAA
119521	TTTTTG TATT	TTTAGGAGAG	ATGGGGTTTC	ACCATGTTGG	CCAGACTGGT	CTCAAAC TCC
119581	TGGCCTCAAG	TGATCTGGCC	ACCTCGGCCT	CCCGAAGTGC	TGGGATTACA	GGTGTGAGCC
119641	ATGGCGCCAG	ACCTGGACTT	TGTCTTCTGT	TTCATCAGTC	CTTCTGTTGG	TTCAAGCACA
119701	GTATCACACT	GAAGACTGAT	GATTCTATAT	AAATATGGTA	AAGACTGTAC	ACCCTA ACTG
119761	TTCTTATTTT	TTAATTTTAA	GGCAATTTTA	GATTCCAGCT	TTCCAAAGAA	TTGTGGAATG
119821	CTTAGAGCTA	GAGAAGCCTT	GGAAGTCATT	TAGTTTTTGT	TTTGT CAGAG	AAAATTCTGT

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123121 ATGTAATAAT ATCAACTAC TTTAAAGAT TTTAAGCAT TTGACCCAAAC AATTTCACTC
123181 TGAGGTATAC AAACAGCAGA TATGTGTGCA CATATATACC AAGACACATA CACAGCAAAA
123241 TTCAATTGTT GTAATAGTTG AAAGGGGGA ACAACTCAAG GAATAAAGAT TAAATCAAGC
123301 TGAGAAAAAG AAACACACAG GCAATATAT GATCCGAATT GTATGCAGAT CTCCTTGGC
123361 CCCAGAAAGAT ATGTTTAAAG TCCCACTCC CAGTACCTCA GAATTTGGC CTATTTTGA
123481 AATAGGATAG TTGCAGATAT TATATATAT TTTAATAGA ACTAGTATTC TTCTAAGGTG
123541 GTACCTTGA AGAAGTATAG TATATATAT TTTAATAGA ACTAGTATTC TTCTAAGGTG
123601 ATGTCAAAGG TTGCCAGCAA GTACGAGGAA GACTGAGGTT ATGCAGCTGC AGGTCAAGGA
123661 AGGCTTCAGT GGAAGCATAG ATCTAATGT ACTGAGGAA GCTCAATGT TCAAGGAAGG ATTTTCTTAC
123721 CTACAGAGAA ATATATTTGT TGTTTAAGC CACCTTAGCT TCTAAGCTCT TGTATACAGCA
123781 GCCCTAGGAA ACTAATATAG GCACAATCCA GGAAGTTCC AATATAGAG TTCCAGTTGT
123841 CCTCTCCAG TAATATAGAAC AGTATTAAT TCCAGCAT TATGTGTGAC AATACAGATG
123901 ACGTACAGAG CAGTCCCCAC TTATGCACAA AACATATGT TCCAGCAT TATGTGTGAC AATACAGATG
123961 CTGAACCAT GGATAGTACT GAACCTTATA TAGCTGTTT TCCATATCA GACACAGCTA
124021 TGAATAAGCT TAATTTATA ATTAGGCACA GTAAGATAT AATACATAT AATTAGATA
124081 AITGTTAAGA ATATACTGTA TAAAGTTAG GTGAATGTT ATTTCTGAA TTACCTGTTT
124141 AITATTTTGG GACTGCAGTA GACCAAGGA ACTAAACCA GTTAGAACG GTATACAGA
124201 GAACTGTATT TCACCCGAGC CTGAGTGTG AGTTTAAAG GCTTGCATG GTTGACTGT
124261 CACATGGCCG ATCTTTAGT CTGACCTGAG AGGTAGAGCT GATACGTGT GGCTCAAGT
124321 TCCATATATA AATACATGT CTGACCTGAG AGGTAGAGCT GATACGTGT GGCTCAAGT
124381 AACTTATCA GTAGAACAT TTCAAGGCT TAATAATTT GAACCTGTT TCAAGTTGGG
124441 AGGCTAGACC TCTTTTGGG TAAGATAAT TTTTAACT ATACTTAT TTGCTTTCA
124501 TGTTAACCT TATTTGCTT TCATGTTAG TTCCCTGGA ATGTTTAT TTGCTTTCA
124561 TGAAGTAGGG GGTCAAGTT CTTTCTTCT CTTTCTTCT TTTAAAGGT TTTAAAGGT
124621 ATACAAATGT CCAATGCCAT TTATTTACAA GAGTCCCTTC ACCATTTGT TATGTTGCA
124681 CTTAGATGT AATCAATGT TCATATTTGT TTGAGCCTGT TCCATTTGT TATGTTGCA
124741 TGACACACAC TGCCCTGAT ATTGTTGTT TTTGGGCTCT TGATTTGTG TATTAATTT
124801 AITGTTTAT TTTGGGCTCT TGATTTGTG TATTAATTT GAACCTGTT TCAAGTTGGG
124861 TATAATAAG CTATTTGGG ATCTGATTAG GATTACAATG GTTTGTAGA TCAAGTTGGG
124921 GACAATTAAT ACCTTTAA TATGAGCGC TTCAACTGTA AATATACCT TCCATTTAT
124981 AGTTTCTG TTTAATTTAT CTGATTAAT CTCAACTGTA AATATACCT TCCATTTAT
125041 CGTGAATAAT TCAGAGCCCA AGTGCATAG CTATGTTAGT TTCTTCGTA AAGTACATA
125101 GCCGATGTG GTGATCACG TGAGGTGAG AGTTTGAAG CTATGTTAGT TATATACCT
125161 AACCTCATCT CTAGTTAA TACAAAAAT AGCTGGGTGT GGTTGGGGG ACCGTGAATC
125221 CCACTAATC AGGAGACTGA GGAGGAGAA TCGCTTGAA CCAAGGAGGA GAGTTGAG
125281 TGAGCCCAAGT TCCTGTACT GCACCCGACA CTGGGCGACA GAGCGAAGCT TCGTCTCAA
125341 AAAACAAAA AAAGAACAT CAATATATCA ATGTAGATTA TTCAATATAC TAAATAATGA
125401 AAGTTATTA AAATATCAGG ATATATAAGC AAAAAATCA ATAACTCCA TATATACAAA
125461 ATGGCCAGTT AGAGAAAAA AAAAGATAG GCGAGACTTA AAAAGGCTGG GAATCTCCCT
125521 GAAAGCTTTG AGAGGCTTTG GCGGATTTG CAGGATTTG TCTGGCTTCA TGCCAGATA
125581 CGGTACAGT TCGTTGTTA AAAAAATTT GCTCCATCAA TCAACAAAGGG GCTCTTCT
125641 CAGAGCAAA GAGCTCCAT AACACCGGAC ACTAGATGTC TAAGGACAC CTCTTAAGGA
125701 AGTTAGACT CCAAGAAATG GTGTTTCTC TGTTCCCAA CTCTGGAAC CTCTTAAGGA
125761 CTGCTCCTG GAGTTCCGTT TCAATCTAC AAGGCTGTCA TGAGGTTGC AGACCAAGTC
125821 CGTGGCCCTCA GTGTCGGAT GTACGGGTGC CTGGCACCCT GAATGTGAGA ACATGACCTC
125881 CCTGAACCA CCACAAATGT TGTTCATGT TATGTATGT TATGTATGT TTTTCTTATC TGAATTTCT
125941 TTTCTTTAA AATTCAAAT ACATATTTG CAAGGCCCCCTG AACAAAGCTTC ATGAGCAITT
126001 ATTGAACCA CAGCTTTAA AACCTACTGA ACAGCTTGT CTATGTTGT CTATGTTGT ATTCACTATC
126061 CACCAATAT TTAATATGT ATCAATATG TTTTATATTT CTGCATTAAG GTTATTAAT ATTAATTTG
126121 TATTTCTTT ATATGCTAT TTTTATATTT CTGCATTAAG GTTATTAAT ATTAATTTG
126181 CTACAGTAA AGTTCAAAA AGTTCAAAA TGTCACAGTA ATTTCAAAA AGATGATGT CAATTAAGC
126301 AAGAGAGTAG CACTGAATTT GAAGAAAAAT AGATGCGTTT GAGAGAAAAAT TAGGAGGTAG

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129601	GCTAATTCAG	TTTTCAATCA	TCATTAATAAT	TTTGTTCCCTA	AATATATGGC	CATTATTTTC
129661	CACAACCACA	CTAAAACCTT	ATTACCTCTG	GCAAGTGACT	ATGCAAGTAA	CTAAGAGCAA
129721	AAATATCCAC	AACTACCATT	TGAGCTATCA	ATTTAGGGAA	AGTCATCTGG	CTATAATCTA
129781	AGTGACCCTC	CACTGAATGT	CAGTATCTTT	GCATATGTGA	TTTAAATCTG	GGCCTTCGCA
129841	ACACCATGAA	CTGTTCTTGT	CTTGAATATC	CAGATTGAAG	GAAATAATCT	GAGTAGTTAC
129901	GAGTCCTGAA	GCTAGAAAAG	TGGAAACCCC	ATTTGCTCAT	CAGAAAGCCT	TAGAGCTTGG
129961	GCGCTGGCGG	GTCCTGTCTC	ACCGGGACAG	AGGGGCTCTT	TCCTCCCCAT	CTGATAGTCT
130021	GATAACTAGA	GAAGCCGGCC	AACTTATTCT	CCAAGAAGGA	GCCATCTTAG	TTCCTCCTGA
130081	AATGTTTCATA	TTTAGAAAAT	ATTGTTTGTC	AGTAATTTAA	CCCCTTAATG	GGCTTGCCTT
130141	GTGGTCCATA	CCACTGAGTG	CAGAGCTTGC	CTGGAAGAAT	TGTGAGGGCC	ATTCCATCTT
130201	CCAGGCAGTA	GAGTTCAGTA	CTTCTTTAAA	ATTGCTGCTG	AACTCTGTAT	TTGAAAAGAA
130261	AGAATCATT	GGGTGTGGTA	GCTCACACCT	GTAATCCTAG	CGCTTTGGGA	GGCTGAGGTG
130321	GGAGGATCAT	TTGATGCCAG	GAGGACCACT	TGAGACCACC	CTGGGTAACA	TAGCAAGACC
130381	CTGTCTTTAG	AAAAAAAAAA	TACAATAAAA	TAAATACAAT	AAAAATAAAA	GCAAAAAGAA
130441	AGAGTCCATC	TTAGGGACAG	ACTGTAACCTA	CTCACTGGAG	CTTACCTTTA	CATAGTTCAG
130501	GATCAATTAT	AATAAAACAC	TTTTGTGCAG	ATTCAATAGG	ATTATTTTAA	TCCCCATCAT
130561	CTCTCTGAGT	TTCCAGTCAG	TTTCTCTGCA	TGTAGACACC	CTTCTCCAGC	CCACCATTGT
130621	CTCTCCTCCT	ATAGCTCCAC	CAACAAATCA	GAACCTTTTC	TAAGTGCACC	TAGTGCACCT
130681	AGAGTCTACT	CCAGAATGCT	CATGGAGAAA	GTTTCTGAAA	GGTAAAACCTC	TGAATGATAT
130741	TTGTAGCTAA	AGGGAGACTT	GCTAGAGACA	ATAAGCTAAT	AGTTGTAGAC	TTCAGTAGAA
130801	GAGGAATGAC	ACTGCAATGT	CAGGGTGCAG	GACTTCAAGA	GGGCAGAGTA	TGAAAACCCA
130861	ATGGGAAAAA	TGCTCACCAG	GAACATGAAG	AGAAGGAATT	ACGTGTAAGG	ATTTCTCAAT
130921	GTGTTCCCAA	ATTTGCCCAG	CAGAGGGAGG	CCTCGGGTTG	ATGGCAGGCT	GACCACACAA
130981	TTAAAGAAGG	CTGAACCTGG	GGGCTTTTAA	CAACCATCGT	GGGCTCTACT	GTAAGCATT
131041	AGAAAAAGAA	AGTTATCCAT	TCAAAAATAT	ATATATTTTT	AAACTTCAGA	ACAAAATTAT
131101	GAAGAGCTAT	ATTTACTTTT	CTACATTCTA	ATTTTATATA	ATCTGAGTAT	ATTTTGCATA
131161	TATTGTTATA	GTACATATTC	AATTTTGTAT	TTTGCTGTTT	TCACTTAACC	ATTTTACTA
131221	GATTACTCTG	TGTTCCATAAT	AATCACTTTT	TTAAAACCTT	TATTTTATT	TATTTATTTT
131281	TTTTTTGAGT	CAGAGTCACA	CTCTGTCGCC	CAGGCTGGAG	TGCAGTGGCG	TGATCTTGGC
131341	TTACTGCAAC	TTCCACCTCC	TGGATTCAAG	CAGTTCTCCT	GCCTTAGCCT	CCTGAGCAGC
131401	TGGGATTACA	GGTGTGCACC	ACCAAGCCCC	GCTAATTTTT	GTATTTTATG	TAAAGACGGG
131461	GTTTCACCAT	GTTGGTCAGG	CTGGTCTCCA	ACTCCTGACC	TCATGATCTG	CCCACCTTGG
131521	CCTCCCAAAG	TGCTGGGATA	ATCACTTTTT	ATGCTGCATA	ATTCTTCAGA	TTTGTCACTA
131581	CGACTGTATT	TACACTCATT	TGTTTTATTA	GAAAGAATT	CAGAATATT	TGGCTGCCCT
131641	AATTAATTTT	ACAATTAATA	TGATTTTGAA	ATTGGGTATT	GGCTCCTTCT	GAATTGGTTT
131701	ATTAATAAT	ATTCTAATGT	AATTTATGAC	ATTTTCATCA	TATTAGCATA	TTTATTCTGT
131761	TAGAAATTTCA	TAATTTATAA	AGCTACAAAC	TGTATGTGAT	ATAGCTTGTA	ACTTTATCTC
131821	ATAACTTTAT	GCAGTTACAA	GTAGAAATAA	AATGTTCCCC	TCAAGATTGC	TTAAAATTTT
131881	ATTATAAACA	AGTGTAACAA	ACAAAATCAC	TAAAACACTC	CCTCTTTTTT	CCCCCAAAT
131941	GCATGTTTCC	ATTTTAACAG	AACCCGTATT	TAATCAGCAG	ATTTCTATGG	TGGCTAGATT
132001	TGTAGACTAA	ATATTAAAAG	TCCCAAAGCA	AATGCATTTT	TCTCTTAAAT	TTTACTGACT
132061	TTTTTTTTTT	TTCTTTTTCT	GAGACGGAGT	CTTGCTCTGT	CGCCAGGCT	GGAATGCAGT
132121	GGCACAATCT	CGGCTCACTG	CAACCTCCGC	CTCCCGGATT	CACGCCATTC	TCCTGCCTCA
132181	ACCTCCCGAG	TAGCTGGGAC	CACAGGCGCC	CGCCACCAGC	CCCAGCTAAT	TTTTTGATTT
132241	TTTAGTAGAG	ACAGGGTTTC	ACCGTGTTAG	CCGGGATGGT	CTCGATCTCC	TGACCTCATG
132301	ATCTGCCCAC	CTCAGCCTCC	CAAAGTGCTA	GGATCACAGG	CATGAGCCAC	CGCGCCCCGC
132361	CTACTGACTT	TTATCCAAAG	AAAATATAAG	AGCTCTTCAT	CATAACGTAT	GTTTCTTGCT
132421	CTTGTTATTA	AATATGACAC	ATTTAGACTT	AAACTGATTT	GAAGGTTTAT	GACATTGTTT
132481	AAGTTATTAC	ATAATTAATT	CATAAAGATA	ATGACTAGTT	TGAAGTACTG	ACAGCTCACA
132541	CATCATCAGT	TGAACAGCAG	AAAGCTTACT	AAGCTACTTT	CTTATGTTTC	TGTCTCCCAG
132601	CTACTAAAAG	AAACGAAACC	CTTCCAGGTG	TTAAGGCAAA	ACTTTCCTCC	CCCTTCTTTC
132661	TATAAATCTG	ATTCCATGTT	AGTGAAATTT	CTACTGATGG	CTTTGGTTTC	CTCTATAGTA
132721	GAATAGAGAT	CCTATGGCAA	AAGTCATGTC	TGACATGGTA	GCAAATAGAA	ATGGGGAAAA
132781	GGAAGGTCTG	CAAGAGCCAA	TGTGGGAAAT	GGGGAGAGGA	CTGACTACAA	AAACCCAGCA

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136081 CATGACCAAG GTATTATGAG ATTCTGGAAT TTCCCAAC CACATGTGATT GCTGGAGAA
 136141 TAGAAGAAAT GGAATTACAAAG TGAACCTAG AAGGGAGATG TTGAGAGAA CGTCTCTGCA
 136201 AATCCATTTA GAGAGACCTT TCTCCAGTGG TGAATCTCAAG ATGCAAGCTCC TTTCATCTCTG
 136261 TGGCTGGCC ATCTTCAGCA CATGGCTCCC AAGGATGTCC TCAGGATGTG CTCTAATCCA
 136321 AGGAGCCCTGA AAGAGAAATA AGGCATGGAG TATTGTGAGT GGTAGGTGTG TATGGACCAAG
 136381 TTATGGAGAA ATACAGATCA CTTTGGCCCA CCTTCTACTA ACCAGAACTC ACACAGCCCAT
 136441 AGACACTGAC AAGTAGGACT TTATGGAGAT TAACAGGATG CTTTCTACTA CCTTCTACTA
 136501 CAAATATTTA ACAGCTTCA AACAAGGTGC ATTAATTTGA GTCTAGGAAT AGGACTGTAG
 136561 TCTCCCTTTT CTTCCCTTTT CTTCCCTTTT CTTCCCTTTT CTTCCCTTTT CTTCCCTTTT
 136621 TATTAGACA ATTAATGACC ATTAATGACC ATTAATGACC ATTAATGACC ATTAATGACC
 136681 GATCAAGTCA GATCAATCTG ATGATTATGA ATGATTATGA ATGATTATGA ATGATTATGA
 136741 AGGTAATTTT AGGTAATTTT AGGTAATTTT AGGTAATTTT AGGTAATTTT AGGTAATTTT
 136801 GTAGCAACAT GATGGAATTT GATGGAATTT GATGGAATTT GATGGAATTT GATGGAATTT
 136861 GTTAAACACC ACATGTTCTC ACTTATATGC ACTTATATGC ACTTATATGC ACTTATATGC
 136921 TCTCATTTGA GTAAAGATTA CAACAGAGAT TACTAGAGAT TACTAGAGAT TACTAGAGAT
 136981 GATGATTAAG AGAGATTCCT TAAATATAGT TAAATATAGT TAAATATAGT TAAATATAGT
 137041 GTTCTATTTG TACTACAGAA TGGCAATAGT TGGCAATAGT TGGCAATAGT TGGCAATAGT
 137101 AAAGAGGAC ATTGAATGTT TCGAACACA AGAATATAGT TCGAACACA AGAATATAGT
 137161 TTCTAATTA TTACCTCTGAT CTGATCAGTA TACACAGTAT TACACAGTAT TACACAGTAT
 137221 GCTGGGCGCA GTGGCTCACA CCTGTATCC CAGCAGTTG GAGGCGCAG GTAAAGCAGAT
 137281 CACTTGAGGT CAGGAGTTAG AGACCAAGTCT GGCACAGATA GTGAACCTCC ATCCCTACTA
 137341 AAATACAAA AATCAGCCAG GCGTGGTGGC ATGTGCTCTG ATGTGCTCTG ATGTGCTCTG
 137401 CTGAGGCAAG AGAATTTGCT GAACCCAGGA GCGGGAAGTT GCGGGAAGTT GCGGGAAGTT
 137461 CACTGCACTC CAGCTTGGGT AACAGAGCAA GCGTCTGTTT CAAATATATA TAAATACATA
 137521 AATTAATATT TTTAAATAA AGAACATCAC TATGCAACCC ATATATACAT ATAATATATA
 137581 TGTCAATTTG AATCAATATT TGAATAATG TGAATAATG TGAATAATG TGAATAATG
 137641 TCTCGAAGTT GATATACCTTA AAAGGAAAA AGTCCGAGGG CTTAACCTAT TCAATCAAAA
 137701 TTTTATTA ATGCTATAGT AATCTGGAAA GTATTTCAGA ATGAATGGT ATAAAGTTAG
 137761 ACACAAAGAT CAGTGAAACA AAACAGAGAA CCGAGAAATA GATTTCACA TCTATGACA
 137821 ACTGGTTTG ACAAGGTGT TAATAAGTAT TAATAAGTAT TAATAAGTAT TAATAAGTAT
 137881 ATGTTTCTTG AACAAAGTAG CATCCGGTGT GAGGAGAGG AGCAAGGACC TTACCTCAA
 137941 CTTTATGCA AATTAATCTC AAATAGAGCC ATAGACTTAA ATGTAAAGC TAAATTTATA
 138001 AAATTTCTT AAATATAGG AGAATAATCAT CAACACCTTA GATTAAGCA AGATTTCTT
 138061 AAACAAAC AACAGTTA TAGTTTATA AACATAATA ACAATAATG AATTTCTATC
 138121 AAAGTGA AATTTGCTTT CAAAAACAT TATAAATGA AAAGCAGAG GCTGAGGAT
 138181 GAGAACTCACT GGAACCCGGG AGCTACAGGT TCGAGTGGC CAAGATGGTG CCACTGCACT
 138241 CCAGCTTGGG TGAACAAAGT AGACTCTTCC TAAATAATTA AATAATTAAT AATAATTAAT
 138301 AAAGAAAAA GAAATCTAC AGGCTGAGAG AGACTCTTCC TAAATAATTA AATAATTAAT
 138361 GGAATCGAC CTGAAATAA GACATTTGAC AAAGAAAAA CATTAGTTAG TAAAGTGAAG
 138421 AAGAGTAAAA GTTTCAACA GACATTTGAC AAAGAAAAA CATTAGTTAG TAAAGTGAAG
 138481 CATGAAAAAG TTTAAACAT CATTAGTTAG TAAAGTGAAG TAAAGTGAAG TAAAGTGAAG
 138541 ATACTTCAACA TTCAACAGAA TAGCTAATGT TAAAGGACT GACAACTCC AGGGTGAACA
 138601 AAGGTGTGGA GGAACCTACT CTCATATATT GTGAATGTAA GAGCAACTAC TTACCACTAC
 138661 TTTGAAAAA GTTTGGCTGT TTCTAACATA TTCTAACATA TTCTAACATA TTCTAACATA
 138721 TTCTGGGTCA TTCTCCAG TTCTCCAG TTCTCCAG TTCTCCAG TTCTCCAG
 138781 TCATACTGGC TTGTTTTCAC AATGCTATTA ACTGTAACA ACTGTAACA ACTGTAACA
 138841 GTGAATGGGT AAATAAATG TAAATATG TAAATATG TAAATATG TAAATATG
 138901 ATCAACATG GAGGCGCAAG ATGTACGGAT CACCTGAGAT CACCTGAGAT CACCTGAGAT
 138961 ATCAACATG GTGAACCCCTC ATCTCTACTA AAAAATTAGC TGGGCATGTT CACGGGCGCC
 139021 TGAATCCCA GCTACTCGGA AGGCTGAGGC AAGAGAACTA CTTCAAGCTG GGAACAAGT
 139081 GTTGCAGTGA GCCAAGACCA TGCATTTGCA CTTCAAGCTG GGAACAAGT TGAATAATG
 139141 ATCTCAAAA AAAAAAAT TGCATATAT ATACAAAAA TGGATGATC TCAAAAATG GAAGGAAAA
 139201 AGGGAATAAA CTACTGATAT ATACAAAAA TGGATGATC TCAAAAATG GAAGGAAAA
 139261 AAAAAATACA TATGATATTA ATCCATCA TATGAAATTT TAGGAATGGG AAAAATTAAG

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142561	ACGAAAATAA	AAATTAAAAA	AAATTTTAAA	AAAAAGAAAC	AAAAGCTCTC	TAATGACCAA
142621	GTCCTACACG	ATAGTGAATA	AATTTTTTTG	TGTGGTCCCT	AAAATTGAGT	TCATGCCTTT
142681	TCTGAAGTAA	TAGACGCCCA	GAGAAGGGAT	CGACTTACCC	ATCATGCCAC	AGAGATTAAT
142741	TGGCCCCAGA	ATTCTTTAGC	AGACCGTGTA	TATGAACGTC	CTTTGCAATC	ATATAAATTA
142801	ACTGGGAAAA	CCTCATTTAG	TATGTTACAT	GCCTAGCGTT	TTGTGCCTGA	ACACCTTACA
142861	AGAACCAGGG	ACTATTGCCC	CAATATTATA	TTTCAGGAAA	GGAAGGCCCA	GACAAATGGT
142921	GTCACTGGTC	CACTTTCACC	CAGTTGGTAA	ATGAAACCAG	AAATTATAGC	TGTACCACAG
142981	AAAGGTGAAA	ACGTTTCTTT	TATAATTTCA	CATACAATCT	TTAATGGACC	CAGTGTCCAA
143041	CACATTAAG	CAAGTGCTCA	GGAGTGACAT	CAAGATGTAA	AAAATAGTCC	TGTCCTCAGG
143101	GAGTTTAGGT	CTTGGAGAAA	AGAGACCCAA	GGAGACACAA	GACAAAGGGG	AAAGAGAAGG
143161	AGCGCTGAAG	ACTGAGGACC	CTGCCTGTGG	ACTGAAGTGA	GGATGGGGAC	ACCCGATGCC
143221	CGGAATATGA	CAGTTTGGAG	GGGCCTGAAG	GACTCTTCTA	TTCTCTATCA	GAAAAACAGA
143281	ATTACTCTCC	TAACCAGAAA	AGGTATTTCA	ATTTATATTT	TCCATCAGTG	CACCTTTCTG
143341	GTGATAATTT	AATGTGTTTT	AAAAAATGTA	TCACAGTGAT	GGCCTGGTGT	GAAATTAATA
143401	ATAAAATTTT	AAGAATTAAA	AAATATAAAA	ATCTTTTATA	TAGACATTAG	GAGTTACAAG
143461	GATAACTGTG	AATTATAATT	AGTAATTAAA	TTGAAATACT	GATTATTTTC	ATTTTTATTT
143521	AATTATTTAA	TAAACCTAT	TTAACATTTA	ATATTTATCA	GTAATTAAT	CTAATTGTTA
143581	ATATTTATTA	TTATAAATTA	TTTTAGAATT	AAAAATAAGT	GTAGAAGCGA	GGCATGGTGG
143641	CTCAAGCCTG	TAATCCCAAC	ACTTTGGGAG	GCTAAGGTGG	GAGGATTGCT	TGAGCCCAGT
143701	AGTTCTAGAC	CAGCCTGGGC	AACATGGAGA	AACCCTGTCT	CAATACAAAA	AAATGAGCCA
143761	TGTGTGGTGG	TGCGTGCCTG	TAGTCCCAGC	CATTCTGGAG	GCTGAGGTGG	GAGGATGACT
143821	TGAGCCTAGG	CAGTCAAGGC	TGCAGTGAGC	CCTGATCTTG	CCACTGCACT	CCAGTCTGGG
143881	CAACAGAGCA	AGACCCTGTG	TCAATATACA	TATGGACAAA	CTTAAATTTT	AAAATGAAAG
143941	CATACTACTG	ATACAGAATT	GAGTAGAGAT	GCAAAGCTAG	TCCTATAACC	AGAACAATAA
144001	AGATAAAAAG	GAGAGTGGAA	GAAGGTATGT	CATGAATTTT	ATGATAAATG	GCAATTGCAA
144061	ATATCCTGTA	GCAGAACAAA	ACAACAAAAC	TGTAGATAAA	ACATATCCAA	CCCTTTGGAA
144121	GGCCAAGGAG	GGAGGATTGT	TTGAGCCAG	AAGTTGGAGA	CCAGCCTGGG	CAACATAGTG
144181	AGACCCTGTA	TCTAAAAAGG	AAGAAAGAAA	AAAAAAAAAA	GGATGATAAA	GTAGACAATA
144241	TTGAAAGCCA	TTTTCTGCAA	ATACATAGTG	AATTTGATCA	GTAATTTTCT	TCCAACAGTG
144301	CAAAAATGAA	TAGATATTAG	TTGCCTGAAA	TAAAAATCAA	ATATCCAACA	AAAAATATTG
144361	ACTATCTAAT	AGTATCTAAG	CTAGTAAATT	TGGCCAGTTA	TAAAATGTCT	TAAATTTTTA
144421	TTTAAAAAAA	GAAAACCAT	TTTATAAGAA	GAGGTGATAA	AGAGAAATTA	TTTCAGTTAT
144481	GAAGATTTTG	TTAGAAAAC	ATGAGAAAAA	AACATTTTTT	TGTTTTCAAA	AAGTGAAAGA
144541	TTAAGTTACC	AAACAGTTGC	TAAAGAATAC	CAGATGGCTG	AGCGTGGTGA	CTTATGCCTG
144601	TAATCCAGT	ACTTTGGAAG	GCCAAGGCAG	GAGGATCATT	TTAGGCCTGG	AGTTCCGAGC
144661	CAGCCTGGGC	ACTGTAGCAA	GACCCGTCTC	TATTAAAAAA	AAAAAAAAAA	AAAAAAAGA
144721	ATACAAGACC	TTGCTAACAA	TAGCAAAGAT	CAATTAATTC	AAAATTTGAA	AAACTGTAAT
144781	TTATTTAGCT	TTAGAGTACT	CTCGTGATAT	GAGATTGCCA	AATTAATACT	TTGGGTGCAT
144841	TTCTTTTCTC	AAAGGACTTG	CAAATTTACA	AAGAAGTGTT	GAAGAAAAGC	CACACATTGG
144901	CAGGTAATGT	TTGCAAAAAG	CAGATCTGAT	GAAGAACAAT	ATTTTATAG	TATACAAAGA
144961	ATACTTAAAA	CTCAACAGTA	AGAAAATAAC	CTGATTTAAA	GCAGGCCAAT	GACCTGAACA
145021	TCTGTTCCACC	AAAGAAGATA	CACAGATGCA	AGTATGCATA	TGAAAAGATG	CTTGACATCA
145081	TGTCATTAGG	GAACCTGCAA	TTAAAACAAG	TAGATACCAC	TGCATACCTA	GTAAGATGAC
145141	CAAAATTTAG	AACACTGTCA	GCACCAAAGG	TTGCAAAGAT	ATGTAGCAAT	AGTAACTTGT
145201	TCATTACTGG	TGAGAATGCA	AAATGTGCAA	TCACCTTTGGA	AGACAGTTTG	GTGGTTTCTT
145261	ACAAAAGTAA	CCATACTTTT	ACCATAAGAT	TCACCAATCA	CACCTCTTAG	TATTTATCCA
145321	AAGGAATTGA	AAACTTATCT	CCACACAAAA	ACCTGCACAT	AGATGTTTAT	AGCAGCTTTA
145381	TTCATAATTT	ATCCAAAAC	TGGAAAACAAG	ATGTCCTTCA	GTAGGTAAGT	GGATAACTGT
145441	GGTACTTCTG	AATAATGGAA	TGTTATTTAG	AGTTAAAAAG	AAATGCATTTC	ACTTTGGGAG
145501	GCCGAAGTGG	GTGGATTGCT	TGAGGCCAGG	AGTTTGAGAC	CAGCCTGGTC	AACATGGGAA
145561	AACCCCAATT	AGCCGGGCAT	AGTGGCGTGA	GCCTGTAATC	CCAGCTACTC	GGGAGGCTGA
145621	GATATGAGAA	TCGTTTGAAC	CTGGGAGATG	GAGGTTGCAG	TGAGCCAGTG	CCACTGCACT
145681	TCAGCCTGGG	CAACAGAGCA	AGACTCCTCT	GTCTCAAAAA	AAAAAAAAAA	AAGAAAGAAA
145741	AGAAAAAAGA	AAAAGAAAAA	GAAAAGAAAC	GATCAAGCCA	TGAAAACACA	TGAAGGAAAC

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149041	ATATCCTGCT	TTAGGCAAA	TAGGAGAGG	GAGAGGAGG	TGATTTGTTT	TGAATCTAT
149101	TTTTTCTCA	ATTGTTCTCA	ACTCAAAATA	CCTCTTATGC	CAAGAATGGC	ATATTCTGCT
149161	ACCCTTCACT	TACTACTTAC	AACCCAGCCT	CTATCATCAT	AATTAGAACT	TCTGACCCTG
149221	GGAATAGTTG	GCAATAGTTT	GAACTAGTTT	ATATCTCCCT	TAGGAGGCCA	TGAGAGGCCA
149281	GCCATGCTTC	TGACATCTAG	ACAACAATCT	TGCTTCAATT	CTCCTAATCT	CAGAGGTTGAT
149341	GTGTGAGGAC	TTCAACAAT	ATCAGTAAT	ATTAAATTTT	TTTTTCTTGA	AGGCAACAACA
149401	TGATCTTGGC	TTACTGCAAG	TGCTGCAAGC	CTCCTGCTTT	GGCTTCAACA	AGGCAACAACA
149461	GTAGCTGGGT	TACAGGCTTC	TACAGGCTTC	GGCTTCAACA	GGCTTCAACA	GGCTTCAACA
149521	CAGGCTTCCA	CAATGTTGGC	CAGGCTTGGC	CAATGTTGGC	CAATGTTGGC	CAATGTTGGC
149581	CCTCAGGCTTC	ACATAGTTCT	GGATTTACAG	GGATTTACAG	GGATTTACAG	GGATTTACAG
149641	TTATGTTCAAC	TCTAAATTAAT	AACATTTTAC	AACATTTTAC	AACATTTTAC	AACATTTTAC
149701	TGTTGTTTAT	GTTTGTAGTT	TAGTCTCTGT	ATTACTCTGT	CGGTTATGCT	AATTGTTGCT
149761	TTTCAAAAT	GAGTTTAAAG	TCTATTTGCT	CCTCTCTGAA	TCAATTAAG	AACGTCCTAA
149821	AGCATTCTCA	GCAATTAATA	TTTACTGAGA	TTTAAATA	TTTAAATA	TTTAAATA
149881	GCAGACTTGA	AAATACCAAA	TTCTTTTCCA	GAACTGAATC	CCCATCAAA	GTTCAATTTT
149941	ACTCATTAAT	CCCTTTTCAAT	TTGAAGCATC	TCAATTTGAAG	CCAATTTTAA	CCCTTCTCTC
150001	ACACTTTGCT	TGGCTGTTTC	TGAGTTAGAT	CTGTTAGCT	CTGTTAGCT	CTGTTAGCT
150061	CGCTTAGATT	ATTAAACAAC	TGAGTTAGCT	CTGTTAGCT	CTGTTAGCT	CTGTTAGCT
150121	TGTTTGTGTT	TGTTTAAAT	GCAGTTAGCT	GATTAATTTG	CAATTTTCTC	ATTGTTTCTC
150181	TGAGTTCAAA	TGCAAGCAAA	CAAACTAGGA	GAACTAGGA	CTTCTGACTT	GTTGCTTACC
150241	CTACTCATCA	CCTGAAGACC	CTGGAATAAT	AAAAGCTTGA	CCCATTTAAG	ACGATGAGAG
150301	ACAGCAACAT	AGGATCATCA	CTATATCTTT	GCTTGTGCCC	AGTCCAAGTT	AACCATCTGT
150361	GGTATTTTAA	GTGCTTAAAT	CCATATATTC	AACATATATC	AATTAATAT	CCACTAAAT
150421	CTCAGCACTA	GTCTTAACTA	TAGGAAATG	ACAGCGAAGA	AAACAGACCA	AACGTTCTGC
150481	CTTATGGGAT	TTATATTTAT	TTCTCTGTGC	TGTTTAAAC	AAGGAGCTTC	TGCTCTTTTC
150541	CTTAGTCAAC	TGGGGGAGGC	AGAAACAAG	AAGTAAAGAT	GTGCGACCA	GTAATTTCCGT
150601	GGAGAGTATC	AGAGAAAGGA	GCCTTCCGGA	AAGTAAAGAT	GTGCGACCA	GTAATTTCCGT
150661	TATAAAAAGA	TACAATCTCC	GCCTCATAGT	CCAGAAAAAT	TCCCAACAAG	AGGGGCTGCT
150721	CATGAGAGAT	AAGGGAAGTT	GGGGGAAGT	TAGGTTGCTA	ATAAGCTTTC	TTTTTGCACA
150781	CCCTGAGGCT	CCAGAACTCA	GACTGAGGCT	CTGCTTCTAT	GGCACTTCCC	CTCTGCAAT
150841	TTTCCATACA	AACTCCTTAA	TCCGATCCGG	TTCCCTTCCG	AACATCCCAT	TCAAAAGTAA
150901	GTCTTCCCTG	GGTGAAGCCT	TCAACAACCA	AGACACAAGG	GAAAGGCACTA	AATCTCCTGG
150961	AAGATGTTGT	CTGATTTCTC	TGGGTGATC	CACGAAGTCA	TGTCTCCGA	TCTCTCAGAA
151021	GAAATTAAGTT	GTGATTAAGT	GTATCTGGAT	CCAGAAGTCA	ACTAACTGCA	AAACAACAACA
151081	AAACAACAACA	AAATTAATTT	GTGCTGTGTA	AGAAACAAGG	TTAATTTTAT	TTAATTTTAT
151141	TTGAGATGGA	GTGTTGCTGT	CACCCAGGCT	GAGTGTGCACT	GGCACTATCT	CAACTCACTG
151201	CAACCTCCAC	CTCCTGGAT	CAGGCAATTC	TCCTGCTTCA	GCCTCCGGA	TAACTGCGAG
151261	TACAGGTTGCG	CACCAACACA	AGTGGCTAAT	TTTTTAAAT	TTTTTGA	GATGGGTTT
151321	CGCCATGTTG	GCCAGGCTGG	TCTCAAACTC	CTGAACCTGA	GTGTTCCACC	CACCTCGGCC
151381	TCCGAATGTA	CTGGAATGTA	CAGGTGTAAG	CCACCATGCC	CAGCCCAAG	TTATTTTCAA
151441	TAAAAACCA	CTGTTCTCA	ACCCATGTT	TGTTCTTAT	AAGTGGGTG	AGCTGCGGCA
151501	AATCATTTAA	CTTCTGAGC	CTCAGTTGT	TAACTATATA	GTGAAATTA	CCGTATTTGT
151561	TGCAAGAAAT	GGTGGGTAG	ATTGAATAG	CTTATGTTG	CTTAATGCTT	GGTAAATTC
151621	CTGGTACATG	GTAAACCACT	AATAAGTTGT	AGTTGTGGG	GTGATCAGG	CCAAACACCA
151681	GCCGTGGGGG	CTACMAAGTC	CGGCGGGGTC	AAAAGGAATGA	GAAAAAGACAA	GTAAAGAGTG
151741	CATAAAGTGG	GTCCAGGGTG	CCAGCACTAG	ATTGGAAGCT	GCAAAAGGCC	TAAAGCTCTG
151801	GAGCCCAAC	TATTTATTTG	TGATCAAAACA	AAGAAGCAGG	TGTTGAGGAC	GTGAGGGTAA
151861	ACAAGGTAGG	GCATGAGGAC	ATGGGGGTAG	AAAAGGTAGT	GTGATTAAG	CGTAGCTGTG
151921	ACAAGTTAGC	ATTTCTTTG	ACACATGTAG	AATAACTCT	GCTGCTTGA	ATAAGTAGAG
151981	ACAAGTTTAT	GAGTGAATA	CAAGGAACA	ACAAGTCTGT	GCATTTTCA	GAGGCTATGA
152041	GGGGTTTAT	GCCCTGAGCC	CTGGGTTCCA	TCCAAGCCAC	AAAGGGTTT	ATGCCCCTAG
152101	CTTAGATTTG	TGGTGGGGA	GGGCAAGCCT	CCACCATTTG	GCACAGAGCT	TGGTGTCCA
152161	AAGGCCACGA	GGGTTTGG	ACCCTTGACC	CCGACATCT	TCCAAGACTC	TTTACATTA
152221	TGACAGAACAA	GCCAGTCTG	CTTACGCTCT	TCTAACAAACA	TGTAAGTAATA	ATGATATCAT

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155521	GGTGGCAAAG	GGAGACCCTG	TCTCAAAAAA	AAATTAAAAA	ATTAGCCAGG	TATGGTGGCC
155581	TGTTCTCTGTA	GTCCCAGCAA	CTGGGGAGGC	TGAGGTGAGA	AGATCACTTT	AGCTCAGGTG
155641	GTGGAGCCAT	GATCGCACCA	CTGTACCACT	CGGCTTGGGC	AACAGAGTGA	GAGCCTGTCT
155701	CGAAAAAACA	AATATATACA	CACAGTAATC	AATATATATA	TTATATGTAC	CAATCAATGC
155761	TTCACCTTTTA	TATATAATAT	AGATTACATC	TTATTAGATA	TATAGTATTC	CTTCTCCATA
155821	GATAGATAGA	TACAGATATA	GACATAGTAT	CCTCTATCCA	TATTAGAGAG	AGGATACTAT
155881	ATATATCTAT	AGCATATAGA	GATGCTGTCT	CAAAAAAATT	TAAACATCAG	CCAGATGTGG
155941	TGGCCCATGC	CTGTAGTCCC	AGCTACTGGG	GAGGCTGAAA	TGAGAGGATT	GCCATTGATC
156001	CTCTCATTGG	TTGAGCCATA	ATCGCACTAC	TGCACCACTC	AGCCTGGGAG	ACAGAGGGAG
156061	ACCTGAGGTG	GAAGGATATA	GATATAGATA	TATAAATAAA	TATGTATAGA	GAGAATATAA
156121	TATATGTGTG	TATGTGTATA	TATATATATT	ATGAAGACAC	TGGGAGAGAA	TACTATATAT
156181	ATATGTGTGT	GTGTATATAT	ATATTATGAA	GACACTGGTG	GGATGGTTTC	ATTACCAATT
156241	GGACCAAGAG	TCCAGGTATG	GAGCCAACAT	GCAATGTTGT	TGTTGACTGA	GCTGGCAGAG
156301	CACTGGTCAT	AGTTACGGGA	AAAGAAGGTC	TCCAATGAGA	CATACTTAAC	AAAATATATG
156361	AACTTGCCAT	ATACGTGGAG	AGTTCCTGGT	TGTATATAGC	CTTCTCTCAC	CAACCTAGCA
156421	ATTGTCTTCA	TCATCATTAT	AATGCTATCA	GAGCAAAGAT	GACAGCTAAA	TTTTTTTGTC
156481	CCTTTCTTCT	TCTTTCTCTT	CCTTCCCTCT	CCCCACCTCT	TTCTCTTCTT	CCTCCTCCTT
156541	CATCTCTCTT	CTTTTTTTTT	TTGAGATGGA	GTCTTACTCT	GTCGCTCAAG	CTGGAGTGCA
156601	GTGGCACAAT	CTCAGCTCAC	TGCAACCTCT	GCCTTCTGGG	TTCAAGCAAT	TCTGCCTAAG
156661	CCTCCAGAGT	AGCTAGGACT	GCAAGTGCAC	ACCACCACAC	CTGGCTAATT	TTTGTATTTT
156721	TAGTAGAGAT	AGGGTTTCAC	AATGCTGGCC	AGGCTGGTCT	CAAACCTCTG	CCCTCAAGTG
156781	ATCCTCCTGC	CTCGGCCTCC	CAATGTGCTG	GGATTACAGG	CGTAAGCCAC	TGTACCCGGC
156841	CTCCTCCTTT	AATAGACAGG	GTCTAGCTCT	GTTGCCCAGG	CTGGGTACAG	TGGCGTGATC
156901	ATAGCTTACT	GCAGCCTCGA	ACTCCTGGGC	TCAGGAGATC	CTCCTGCCCT	AGTCTCCCCA
156961	GTAGCTGGAA	CTACAGGCAT	AGCACACGGG	GCTAATAAAA	TTAATTAGGT	GATAAAATTC
157021	ACTGCCCACT	GATGACTAAG	CTCTTTGGAC	ATAAAAGACA	CAGACCTTGA	AGGAAAATGT
157081	GTCTACTTAA	TTTTGAAACC	CTATTTATCA	AAAAACAGGA	TGAAAATGCA	AAATGCCATC
157141	CACATGCCAG	AAGATATCAG	CTATAATAAG	TTCCCATAAA	TCAATAAGGA	AAAGAACCCA
157201	ATAAAAATTA	TTAAACCACA	GTAAATCATG	GGTAAATCAC	AGAGGCCTGA	AGGGCTAATG
157261	GACATACAAA	AAGAATCTCA	ATCTCACTAG	TGAAATCAGA	AAAGCACAAA	TTAAGTACAC
157321	AATTAGGTAC	CATTTTAAAT	CTGTAAGACT	GTCAAAATCA	TAAATTATAT	AAGTAAAGAC
157381	TCAGGGAGTT	TTGGAGGAGT	GAGAGCTCTT	ATATTGCTTG	TGGGGTAGAA	TTGGAACAAT
157441	TTCAAGATCT	GTAGTATCTG	GTAAAATTAT	GATATGCATC	CCTCACACCA	GCATGTCACT
157501	CCAAGGTATC	TCCCTGGAGG	GAACATTTAC	GGGACACAA	GAAAGCATGA	TAAGAATGTT
157561	CACAGTAGTA	TTGTCTGCAA	CAGCAACAAC	AACAAAAAAA	CCCAACTACA	CACAACCTCA
157621	ATGCCCACTG	CACAAGGCAA	TGGATTAAAT	AAACTTCAGG	CCGGAGATGG	TGGTTCATGC
157681	CTGTAATCCC	AACACTTTAG	AAGGCCGAGG	CGAGAGGACT	GCTTGAGCCC	AGGAGTTCAA
157741	GACCAGCCTG	AACAAAATAA	AGAGATAGTG	TTTCTACAAA	AAATTTTAA	AAAATTAGCC
157801	AGACGTGGCA	GTGCTTGCCT	GTGGTCCCAG	CTACTGGGGA	AGCTGACGTG	GGAGGATTGC
157861	TTAAGCCCAG	GAATTTAAGG	CTGCAGGGAG	CCATGATGGG	GCCATTGCAC	TCCAGCCTGG
157921	GTGACAGAGT	GAGACCCTGT	CTAAAAGAGA	TAAGTAAATA	ACAACCTTGC	ATTTTCTGCC
157981	ACATTGCAAA	ATGGTGAGAG	AGTGGTTTCT	AGACTCTAGA	CTCTTTCTAT	GACTACCTTC
158041	TAGTTATGAG	ATCCTACAAC	ACTCACCTAA	CCTCTCTGTG	TCATATTTCC	TCCTCTATAA
158101	AGCAAAAATG	CCCCATATAG	AGAGGACTGT	GATATAAAAC	AAGAACCAAG	AAAAGTAAAG
158161	CTTTTCTAAT	CTGTCACAGA	CTAAAGAGTG	CTCAGTATAT	GTGAGTCATT	ATTCCTGGTG
158221	CTGGTAGGAG	TGTATGTTAC	AACTTTGAGT	CAAGTAATAT	GGTACCATAT	ATTAAGATTA
158281	ACAACAACCT	CGGCAATCCC	AGTTTGGGGT	ATGTTCCCAA	AAGAAATGAA	AGCACCAGGA
158341	TATAAGGATG	CATGGACTAG	AAAGTTATTG	TAGCAACATT	GTAATAACTA	AGTTCTAAAA
158401	ACAGCCTGAA	GCTCCATCAG	TAGGGATATG	GTTACATATA	TTTATTATAT	TCTTATGGAA
158461	TATTAGACAT	AAAAAGTAAC	GAGTAACATA	GAAGAGACAG	TGTATATATG	TTACGTTTGT
158521	ACAAACTTAG	GGAAAGATAT	AGATCACCTT	ACCTAGAGAA	GTCAGATTGG	AGACGGGTGG
158581	GAAAAACCTT	GAACCTTCTC	CTTATATCCT	TTATATTGTT	TGACTGATTA	AAATGTATTT
158641	GTTGCATCTG	CTTGAAGGCA	ATGTAAAATA	AAATAAACAT	ACATTTAAAA	ATAAAAATAA
158701	AATTTATTCC	TATCACTTTT	GTAATAAAGC	TGGGCACAGT	GACTAACACT	TGTAATCCTA

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162001 AAGGCCAGCC TGATGGCACT GATGTACATC TAAAGAAAC ATTAAGTTAT CTTCAGATG
 162061 TTCTTACCA TTCTCCTTTA ATAGCACTAT AACATACCTT TTTCCCTAC TCCAGTACA
 162121 CAGCCTCACC TGACGCAAT TCTGGGCTGA GCCCTGACAT TTTCTCTCCA GTTCCAGGAT
 162181 GTGGCTCTTG AGTTCAATTG TCTCAAGCC CAGACCAAGC TCATAGTCCC TCAGTCTACT
 162241 CAGAGCTCGT TGTTCTTCTT TCTCCAGCCT CCAGAGATAA GACTTCTCTT CCTCATGTAG
 162301 GAAACACTGG AGATTCTTAA AGTCAAGCCG GATTTTGTGT CTCTGAATCT GTACCTCTCTC
 162361 CTGAGATGAA GAAAGTATGG TCAAGTATGG GAAGTTAACG GAAATGTTCCAT CTATGGATGA
 162421 ATGATTAAC AAGATGAA GTCGTACCA CGCTACTACT TGACAAAGCT TGAAGACATT
 162481 CAAGCAAAAT AAGCCAGAAA GTCTGACCA GCGTAAAGCT TGACAAAGCT TGAAGACATT
 162541 TCTGGAGTAG TTAAGTTTAT AAGAGACAAA AATATTGTAA GACTTTGCTT ATACAAAGCA
 162601 GACCAGAAA TGACAGATT TGGTTAATG AGTAAATAG TGGTTAAGG GTGTTGGCAA
 162661 ATGAAAGTGA GTTGCAGTTA TTGTTAATG GGTAGTGAAT TTCAAGTTAG AAGATGAAG
 162721 GTAAAGCAC TTAATTCTAC TGAACATAT ACTTAAGT GGTAAATGC TTAAGTGA
 162781 TATATATTTT CACACAAACA CACACACACA CACAATCAGC CACTGGGACA TTAATTTCTC
 162841 ATGAGTCACT GAAGCTGGAA GAATGTCCCC AGTTCTCTGC TGACAGATCA TGTGTGGAG
 162901 GCAAGCACTC AGATGTGGAA GAGGTGGCT CAGATTCTCT ATAGTCAACC AATTAAATTT
 162961 CTGTCTCTC AGCCAAAGCA CAGGAAGAA CAGGAAGAA CAGGAAGAA CAGGAAGAA
 163021 TGAACTTAGG GCCAAGTTCA AAGTAAAGG CAGTTAATG TTTTAAAGCA ACCAGGCTGC
 163081 TATGATTAA GAAAGTTAGT TTTTAAAGCA ACCAGGCTGC TTTTAAAGG CAGTTAATG
 163141 TGAACATCAC CCAGACTGGA TTTTAAAGCA ACCAGGCTGC TTTTAAAGG CAGTTAATG
 163201 GGCAGGGGGA GCTTGTAGT TGACAGGCTG TTTTAAAGG CAGTTAATG TTTTAAAGG
 163261 ACTACCCCTG GGTCTATCTA AGCATTTCTA TGTATAGG TGTATAGG TGTATAGG
 163321 TCTCATCTGA GGAGATGTAA AGTTGCAAT TCCATAGT TCCATAGT TCCATAGT
 163381 GGAGTGTGA TTTCAAGGCA TTTGAAATCTA TGTCTTGA TGTCTTGA TGTCTTGA
 163441 CCAATTAAC TCTCTACTTA TCTTAAATA TCTTAAATA TCTTAAATA TCTTAAATA
 163501 ACAAGTGTGT GATGACTATG ATATAGAAAG AGGCTCTTGA ACTTAAAGT ACTTAAAGT
 163561 TTTGTGTAGG AGACAGGTGC AGCTTTAAT CTTGTATGA CGGTTTCA TATATGTAG
 163621 TTAACATCAA GGTCTTCCC ATTGCCCAAG ATCTTAGAA ATCTTAGAA ATCTTAGAA
 163681 TCAGGAGCTC AAGAGCAACA TCCACAAACA AAGATCAGG TAGAGGTTAG AAGAGCTCC
 163741 TGAAGTGAAG AATATTTGTA ATCAGCTTGT GGAATTTTAC TGCAAGCTAG TGAATATAT
 163801 AATATTAAG ATTGTTGCA AAGTAAATGT GGTCTTGA TTTTAAAG TTTTAAAG
 163861 CGCAATTAAT TTTGCAAAA CCTAATAT TCCATAAAG AATGTGGCT TGATTAATGT
 163921 GAGTTAGTC AGCCAGGAA ATATCTGA AGTTGTAGT TGCAGTGTG TGCAGTGTG
 163981 CATTACTTGT GATGTACTTA TAAATCAAGT ATAAGCCGGG TGCAGTGTG TGCAGTGTG
 164041 ATCCCAAGCA TTTGGGAGG TGAGGTGGG GAAATCAGG GTCAAGGAT CAAGAACCATC
 164101 CTGGCCAAACA TGGTGAACCC CCGTCTCTAC TAAATAACAA AATATTAAGT AAGGATGGTA
 164161 GCACATGCTCT GTAACTCCAG CTACTCAAGA GGCTGAAGCA GGGGAATTC TGAACCCCGG
 164221 GAGGTGGAACA TTGCAGTGA CTAAGATCGC ACCACTACAC TCCAGCAAGA CTCACCTCA
 164281 AAAAAATAGTA ATAAATTA AATAATTA TAAATTAAGT ATATTTCTT CATCAGCTTC
 164341 ATGAGCTAGA GTAGTATGA TTTCAATCTG GAGTGAATCT GTTTCTAAG TGTTCACAA
 164401 GCTTGGTTTC TGACCTGTA AAGTTGAGG CCAAGATGCT CACTGTGTA AAGTGGCAG
 164461 GGTAAAGTGT TGAGGCTGC AAGCTGAGG CCAAGATGCT CACTGTGTA AAGTGGCAG
 164521 CTGATGCTT TTTCTAGTA AATAGTCA TAATTTGAGT TATTTAAGT TATTTAAGT
 164581 GGAATCCCAAG CCAACTACAG TTTAAGATG TTAAGATG GAAAGATG TGCATTAATG
 164641 AAACTTGGAA CCAAGGGGCAAT AAGTACAAAT AATGTTCT TCTTGGGT TCAATTTTCT
 164701 AATCTGGTTT AGTGAATAA AATCTCTCAT GTGCTTTCC TCAATCATCC CCTATGGCTA
 164761 AGCTCTAGAA TGAATAATAG CTGAGATCA ATGAAGTCAG ATCTCTACTT TCCATTTAGT
 164821 TATTCGCATT GCTGTGACA GCTTCTGCTC CGTACATCTG TCTTCAAGT GCTTCAAGTT
 164881 TGTCAAGCT TCTTGAAGCT TTTCTGAG GAAAAAATTTG ATAAAGTGAAG CCTATTTCAAT
 164941 TTGACTCTTC ATTAAGGACC TAGGGGGAAT CCAATCTTC TAAAGATATAT TGAATATA
 165001 GTGAATATTT ATAGAGTCTT CATTTGTTT TGTAGAGAG CATGCTAAAG GCTATATGTG
 165061 CAGGAACATA CTGATCCCCCT TGCAACCCCT GAAATAGTTG TAGGATTTTA AACTTCAATT
 165121 CTGTCTGTA GAAATGAGA CTAAAGAAAG GGTAAATAA CATCTGCTGA CCCAGAGCCT GAGCTATGTC
 165181 TGCCAGGTG

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168481	ATGGGGTTTC	ACCATGTTGG	TTGGCTCGAT	CTCTTGACCT	TGTGATCCAC	CCGCCTCAGC
168541	CTCCCAAAGT	GCCAGGATTA	CAGGCATGAG	CCACCGTGCC	CAGCCTCTTT	TTCTTTTCTT
168601	ATAAGACAAG	TTCTCGCTCT	CTTGCCCAAG	CTGTAGTGGA	GGGCAGTGGC	ATGACCACAG
168661	CTCACTGCAG	CCTCGACCTC	CTGGGTTTAA	GCAATCCTCC	TGCCTCACCC	TGGCAGAGTG
168721	GCTGGGACTA	CAGGTATGTG	CCACCATGTC	CAGCTAAAGT	CTTCTCTCCA	GAAAGAAGAA
168781	ATGCATTGGA	ATTTAGAGGA	TACACAAACA	TCTAGCTGTA	TAGCTAATAC	AGTAGCCACT
168841	ATCATGAGTA	GGAATTTAAA	TTTAACTTAA	TAAAAATTAA	AATGAAAAAA	TTCAGTTTTT
168901	CTGTTCCAGT	TGCCACATTT	TGATTGCTTA	ATAGTTGCAT	GTGACTAGTG	GCTACATAAC
168961	AGCCTCAATA	TACAACATTC	TGTTATCACA	GAAAGTTACC	TTGGACCAAG	TGCTGGGAGA
169021	AGCAATGCAG	GCTTCCTCAC	AAAAGCTGTA	AAAGAGAGAA	CTCAGGGAGT	GTGAAACTCT
169081	TTCTATTCT	AGTTAACTTC	AAGAATAATT	GTTACCAGGC	CAGCACGGTG	GCTCACGCCT
169141	GTAATCCTAG	CACCTTGGGA	AGCCGAGGCG	GGCAGATCAC	CTGAGGTCAG	GAGTTTGAGA
169201	CCAGCCTGAC	CAACATGGCA	AAACCTCATC	TCTACTAAAA	ATACAAAAAG	TTAGCTAGAT
169261	GTGGTGGTGC	ACACCTGTAA	TCCCAGCTGC	TCAGGAGGCT	GAGGAAGGAG	AATGACTTGA
169321	GCTCCGGAGG	GGGAGGTTGC	AGTGAGCCCA	GATTACACCA	CTGCACTCCA	GCCTGGGTGA
169381	AAGAGCGAGA	ATCTGTCTTA	AAAAAAAAAA	AAAGAATAAT	TGGTACCAGA	ATTACTCTTT
169441	GTAATTAGTA	GTAACACTTA	TGCAATTGGG	TGATCTGTGA	CAGATTCCAT	TGAAGGAGTA
169501	TGGGGAGCTT	CACCCCAATA	TATGACTCCC	TGGTATAATG	AGTATTTTGA	ATTAAAGGCC
169561	CTTAGAGATC	AGCAGATGCT	GGAAGAGACT	TTTCCCCTAT	CTACATAAAG	ACCAGTCACA
169621	CTAGACAAGA	AGAACAATTG	TTTTTCCTTC	CAACCCCTAT	TATCTCATTT	TGTACTGAAG
169681	AAAAGAGGAC	TAAGAATGTA	ACCAGACCTA	ATCAGACACT	TTCACAAAAT	AATGTCTGTC
169741	TCTCAGGCTC	ATTCATTTTC	CAAAGAGAAC	CATTTACAAG	TTAAACTCTG	TTCTCTCATT
169801	CATTATCCT	CCCAAATATT	CATTTATTCT	CCCTAGTAAT	CATTTACTGC	CCCTCAAAGA
169861	ATTACCTATA	TTCTCCTGAT	ATCACCCCTC	CCCTCTGAAA	TAAATATGTA	TACATGTATA
169921	AACGTTATAC	ATACATATTT	ATACAGTATA	CATACATATT	TATACATACA	TACATATGCA
169981	TACATATTTA	TATTTATGTA	TTTATACATA	AGTATTTATA	AATAAGGCTA	TATAAGTATC
170041	TACCCCCATT	GGCAGAGGGG	GTAATCACTC	TGTGATTCTA	GCCCATGTAC	TTGTTAATAA
170101	ATTTGTATGC	CTTTTCTCCA	ATTAGCCTGC	CTTTTGTGAG	TCGATTTTTC	AGTGAACCTC
170161	AGAAGGCAAA	GGGGAAGTGT	TCCCTTGGCT	CCTACACCAT	CATGACAATA	AAATTTGACT
170221	CCACCTCGAC	CCCCCCCCATC	CCCCACAAAG	AACAACAACC	AACACTGGTT	AATAAGGTCTG
170281	GTTGTTTTTT	GTTTGTGTTT	TTGTTGTTGT	TGTTTTTGCT	TTCAGGAGCA	GAGGTATAAT
170341	AGGCAAAAGA	AAGAGAAAGG	AGAATAGTGA	ATACCTCTTC	TGCAGAGAGG	GGTGCCTAAG
170401	TGGGACTTCC	CTGGCTAATA	ACGTCTTGCT	AGAGACCCAA	CCAGGAGGAT	AATGGAAGCA
170461	ATCAAGGCAA	CCAGAACAAC	CAGAAGAACC	GGTTTATCCT	TTTTGTGCCC	TCTCCCTAAA
170521	CTGAGGGAAT	AAGAATTGGA	AAGAAGGCTG	CAGAGCAGAG	GGTTTGCTCC	TGAGGAGCAG
170581	TTATTTCTAT	GGGATCAGAG	CTCCTGCAGA	ACTGGGGAGT	TTACTTTTAC	TATCTCTTCT
170641	CCAGGACAGG	ACCTATCTCA	AGAGACATGT	TCAGAGTGAT	TGCAACATAA	AGAGTTTGCA
170701	GACCCAAGGA	GGTAGGGAAG	GCAGAAAAGAA	GATGGGGGAG	GCCAGGGATA	GGCAACAGAG
170761	GAGTGACCAG	GAGCGAAAAA	GCCTGCCTCT	TCTGAGAACC	TAGCTGGGCT	CTCCCTGTAC
170821	CCCCGATCCC	TCCCCCCCCGC	CCGCCCCCAC	ACCCCTACTC	CTGGGAGCTC	CTCTAGGACA
170881	GGGGCAGAGT	CAGGAGGAAG	TTTGAAGAGT	GCCTAGAATA	AAAAACAGTA	ATTTAACTAC
170941	AATTACCGGG	TAGGCTGTTT	TCCTCTCACA	ATTTGATCAG	TCTCTTGAAG	CCACACAGAA
171001	TTTCTTCTGA	AGACGTGTAT	TCCTTGGCAG	GCTATTTCTT	CCAGTGATAC	ACCAGGCCCC
171061	TCTCTGCTGG	GGTCACTGCT	CTTCTGGGGA	GATGGGGCTC	CCCTCCTTCC	AAGGCTCCAG
171121	GGTTCCTGTC	CTGGGCCCCA	CTCATCTAAG	TTCTGAATCT	CTGAGATTTT	GGTGTAAGT
171181	CTGGTGAAAAG	AAAGAGCAGG	AAAGAGGTGA	GAGCTGTAAA	ACAAAGAAAAG	TCCTGACCAT
171241	TTTCAGAGTT	GGAGGGGCCC	TGCTGTCAAG	AAATATATTC	CCCCCCCCAC	TTGCCATCAG
171301	TACACACTCA	CATATCCACT	GAGAAAACCT	TAGCCTGGAC	CTTTTCCGTA	ACCTTCACTG
171361	CTCAGACACT	TACATATTCG	CTGCTAGTCC	CCTCTGTTGC	TGCCACTTCC	TGGGTCAGGA
171421	AGTTAACTCA	GACCGGATTA	AACTGAGAAG	TGAAACTACT	GTGGGAGGCG	GGGCTCATAA
171481	GATTTAGGAG	AAAAGTAGTG	ACGTTGTTCA	TATCATTTGC	ACTCCGCCCTC	TCCGGTAAAG
171541	GAGGGGGAAA	CGTAGGAAGA	AAATATCCTT	CTTTTACAGC	AATAAAAAAG	AGGAACCAAT
171601	TAATAACCTT	GTAAACTATC	ATGTGACCCC	AACACAGAGT	ATCTAAAAAC	AGGAAGCCTG
171661	CAGAGGTTCA	GTTACACAGC	TCTGATTTGA	GATCTTTCTA	CTTTTGCCAC	CAACTCCCTT

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174961	CTCCCAAGA	GGGCTTAAA	GCTTATATAT	TATCCTGGCA	AAACAGATT	TGGGAGGGG
175021	AGAAGAGAA	CTCTGTGAT	GGGATTTACT	TGCGGATTT	TGCTCTCTC	GCTCAGCTAG
175081	GTCGGGTTT	TTGTCTCACA	GCCAGGAAGA	ATTAGGCATG	CAGCCATCAA	AGAAATGAGTG
175141	GAGTAGAATT	TATTAAAGTGA	AAGGAAAGCT	CTCAGGCAAG	ACAAGGGTCC	TGAAGAAGAGA
175201	TTTCTGGTTT	GCTCTTACA	GTTGATTAAT	AGGGCTTAA	ACTCAAAATC	CTGACAACTC
175261	CACCTGTCC	TACCAAGTGA	TGCAAGGCTT	TAGACTGAGC	TACTCCATAT	TGATTAATTT
175321	CCTGAACCTG	GCATGTGTGA	GTTCCCTTAT	CTGCACAAA	CATCCGGGTG	TAGGCATAAGCC
175381	CCCTGTGCA	GTTCCCTTAT	CTGCACAAA	CATCCGGGTG	TAGGCATAAGCC	TAGGCATAAGCC
175441	AGAAGTTCTC	TGGGTACCAT	TCCCTTACTG	TGTCCTTAA	GCAAGCTTGG	CAACTCCCTT
175501	CATTACTAGG	GAGAGTAAAGT	AGATCAAGGA	ACAAGAGATT	ACTGTAACAT	TATCTTGTGA
175561	AAGTCCGTTT	GGGCATGGTT	ACATCTTGG	TCTTACAGGA	AGGGTAAATA	AAATTAATTG
175621	CTCTTTTGG	TGGGTCTGGA	TCTTAGGTAG	ATPAAGAAAC	TTTAATCCA	GGAITGTTT
175681	TGTAAGGAT	AGTTGGTGGC	AGGATGTCA	GAGAGACTTT	GAGGCTTCTT	CAGTTCAATA
175741	TGACCAAGGG	CCATATATTA	GGGTATCAAT	TCTGAGGCC	CAACAAAGAG	TTAGGAGAGA
175801	TGTGATAGCA	TCACAGTGTG	AAAGCAATTT	TTGTTTGTT	TTTAGAGACA	GGCTCTTGCA
175861	GTGTCAACCT	GGCTGAAGTA	AAAGCAATTT	TTGTTTGTT	TTTAGAGACA	GGCTCTTGCA
175921	TCAATGATC	CTCCCATCTA	AGATTTTCA	ATGCTTGGG	TTACAGGCAT	GAGGCCACGGT
175981	ACCAGCCTG	AAACTGCAAC	CACCTTCTGA	TAACTTTTC	AAATGACTTA	AAGGGAAGAGA
176041	GTAAGCACTA	CTCAGAGGTA	GGAAGAAAGG	ACAAGAGATT	ATAGAGATT	AACACAGAAC
176101	ACCAAAAAA	ACCAGACCGG	TGTGGTGGCT	CACACCTGTA	ATCAGAGCAC	TTGGGAGAGG
176161	TGAGGTGGGG	GGAGTCACTG	GAGGCCAAGG	GTTGAGAGC	AGCCTGGCCA	ACATAGCAAG
176221	ATGCTGTCTC	TATTAAAAA	AAAAAATAAC	TGCTTGAAC	TAAATCAGAT	CATGGAACCT
176281	GACAAAGGAT	GTCACAAAGT	AAGTCTTAA	ATTTTTTT	TTTTTTTGA	ACAGTCTGCG
176341	TGTGTGCCC	AGGCTGAAGT	TCAGTGGCGT	GATCTCGGCT	CAGTGCACAC	GCTGCGCTCC
176401	AGGCTCAAGC	AAITCTCCCT	GCCTTCAAGC	TCCCAAGTAG	CTGGGATTA	AGATGCCCAC
176461	CACCAAGCCT	GGCTAAATTT	TGTTTTTTT	AATAGAGATG	GGGTTTTGCG	ATGTTAACCA
176521	GGCAGGTCTT	GAACTCCCTGA	CCTCAAGTGA	TCTGCCACCC	TTGGCCCCCTC	CATAGTGTG
176581	GGATTAACAG	CGTAGTCAAC	TGAGTCAAC	TCTGCCACCC	TTGGCCCCCTC	CATAGTGTG
176641	TACCCGTATC	TCTAAAGAGG	AGTAGGAT	TCAACAGACA	CTAAGAGAG	TTTTCCCTAG
176701	TGAGTATTTT	GATGAAAAA	CTCTTAGAGA	TCAACAGACA	CTAAGAGAG	TTTTCCCTAG
176761	GTACATAAAA	ATAGGATGGC	CCCAAGAGCG	AGAACAATTG	AATGTTGCTG	CCTCTCTGTT
176821	ATCTCATTTG	GCATTATAGG	AAAGAACCAAG	AATGTAACCA	CACCTGAACA	GACCCCTTTA
176881	TAAAGTAAATC	AGTCTCTAAG	CATCATTTAA	ATTCCAAGGA	GAACTAATTA	CAAAATTTATC
176941	TGTTCTTTGA	TCCAATTAGT	CTCTCCTGGT	AGTTACATAT	TGCCCCCTCA	CAGAAATTCCT
177001	CTTCTTCTGT	TCCCATTAAC	CTATTTTGCA	AGGATCAAGC	CCCTGTTATT	TCTTCAACTT
177061	CAAGGTGGCA	TATAAGCTTC	TAAATTTCCAC	TGGATATTG	GTAATATTG	CATGAGGAGA
177121	ACCACAGAGT	AAATTAATG	TAAAGCCTTT	TATCTTATGA	ATCTGCTTT	TTTTGTGTTT
177181	ATTTTCAAGC	AAAACTTCCA	AGGGCAAGG	TATAAACA	AAATAAATTT	CTAAGCCCCC
177241	CCAACCATCT	GAAATGACTT	TCTCTTCAAGT	CAGGCTTCTT	AAAAATGTAAC	CTGAAAAGACT
177301	GGCTCAGGCC	ATTAAGGGG	GTTAGGGTGA	AAACATGCCCTC	ATAATTCCTC	TCTGGCATTA
177361	ACATCAACAC	AGCTTTAAG	TCTGATTAAG	AACATTTTAC	CACTTAAGCC	TTATCAAGCC
177421	TGTAAGCTAA	AACTTCTATC	CCATAGTACA	ACTTTGGTCT	TACACCACTG	GTATCAACCT
177481	CTAGTGTCTC	TTTCTATTA	TCCCAATCT	TTATCAAAAC	TCAACCAAT	GTATCAACCT
177541	CCACCCCACT	CCTCCGCTGC	TCCAGTTGT	CCCGGCTCTC	TGGAACCAAC	CAGTGTACAT
177601	TTCTTAAACG	TATTTGATTG	ATGTCCCATG	CCTCCCTAAA	ATGTATTAAG	CCAAGGTGCA
177661	TCCCAACCAAC	CTTGAGCGCT	TGTTCTCAGG	ACCTCCTGAG	GGCTGTGTC	TGGGCCATGG
177721	TCACTCAAAAT	TGCGCTCAGA	ATAAATCTCT	TCAAAATGTTT	TACAGAGTTT	GGCTCTTGT
177781	ATGACACAGA	TGACTGTCTC	ACTGAAGCTT	GCTCTGGAG	TGAGTGGGG	TTTTGCAAGG
177901	ATAATTTTCC	CCGATAGCC	CCAGAAAGCAG	CTAGTAAATA	TACACTTAA	GGTAGCTTAA
177961	ATGCATTGAA	CACCTGTTT	GTGCGAAGC	TATGTCAACA	TTTGTGTT	GGCAGGCTTA
178021	TGCAAGTAACT	CCTGATTTGT	TAATAAATTC	TATAAATAA	TTCTGGAGTT	TCAAAATATA
178081	TAAGTAAAAA	ACAGAAATA	ACACCTGACT	ACACCTGATA	GGAAAGGGGT	CCGTCCAAGT
178141	CCAGAGCCCA	AGAGAGGGTT	CTTGATCTC	ACACAAGAAA	GAAATTCGGG	GAGTCTGTAA

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181441	GCGGCCAAGG	TTCAATCCTG	GCTTAGGGAA	TGAGTACTTT	CTGATTGATA	TCTGTGTGAC
181501	CTTTACCATT	TGTTGATTCT	GTTCTCTTCC	CCTCCACACA	CTGTCTTGAG	TTTTCCTCTC
181561	TCTGAGAACC	TGGGAGATTA	TCTTTGGTAA	AGTTCAAAAG	CCAGAAATAA	TGGCCGTGTG
181621	GGATGGCTAA	AGTTGAGTAA	TAAGAAACTT	AAAAGGACTC	CTTTTTTTTT	TGCTTTAGAG
181681	TGCTATGGTT	TATGGTTAAA	AGCTTAATTA	AAAGTGGATA	TTCAATCTCT	AAAAGCCTGG
181741	GACTCCTTGG	GAAAAGCAGA	GGAGGCACCA	CAGACCCCAT	TTTGGGAAAA	CCTCTGTTTT
181801	CCTCATGAAA	CCCCAGGAAC	TGGAAGTGGG	TAGATCCTTC	GCAAAATCTA	AGGCTCTGTT
181861	TGGCTTTGCA	TTATGTTATC	TGATGTTTTT	GACTTTTGGG	GGTATCAGAA	ATTACTTTGC
181921	ATTATGAGGG	AGATCTGGTG	TGTAATAACC	AGGTAGGAAA	TATACTTCTG	GGGATAGCTA
181981	AAGGCAAATA	TAGGTGAATA	CTTGGCTATT	TGCACTTTTG	GATCACAAGA	AGCATTCTCT
182041	TGACTACCTA	GAAGGTATGG	AAATGTCTCC	ATCCCCACCG	AGAGATAAGA	TTCCCAGGGG
182101	AGATGGCTGA	TCCCCCAAAA	GAGGGCTGAT	TCCCTCTTTT	GGGATCCAGG	ATCTGGTATA
182161	AAAATGGGAC	CCTGGCCAGG	CACAGTGGTG	CACGCCGTGA	ATCTCAACAC	TTTGGGAAGC
182221	CTCAGAGTTA	TGAATGTCTC	ACCATACTGA	CACTTTGTGA	CTGAGCTCCT	CTCTACCCTG
182281	GACACAAGAG	ACCCTAATAA	TTAGACAGGA	ATATCATTGC	CCCTATTTAG	TCTGAAGAAG
182341	TTATAGAAGA	CGGATCTTTA	TCCCCTGCA	ATCCTTAGGA	TAAAGGGTTC	CCTGGTAAAA
182401	GGGAGTGGGA	AAATATGTCA	GAGGCATTTG	AATCAGAGTG	ACTCCATCTT	GAATAGGGGC
182461	TGGGTAAAT	AAGGCTGAGG	CCTGCTGGGT	TAGGTTAGGC	ATTCTAACCA	GGAGTTTAGT
182521	CACAGGATGA	GATAGAAGGT	TGCACAAGGT	ACCCGTCACA	AAGACCTTGC	TGATAAAATA
182581	GGTAACGGTA	AAGAAGCCAG	CTAAAGCCCA	CCAAAACCAA	CATGGCCACA	AAAGTGACCT
182641	CTTGTCATCC	TCACTGCTCA	TATACACTAA	TTATACTGCA	TTAGCATGCT	ACAAGACACT
182701	CCCACCAGTG	CCACGACAGT	TTACAAATAC	CATGACAACA	TCTGGACGTT	ACCTTATATG
182761	GTCTAAAACG	GGGAAGAACC	CTTAGTTCTG	GGAATTGTCC	ACCTCTTTCC	TGAAAAATTC
182821	TTGAATAATC	CATTAGTTTA	GCACATAATC	CAGAAATAAC	TATACGTCTG	CTTATTTGAG
182881	CAGTCCATAC	TGCTGCTCTG	CCTATGGAGT	AGCCATTCTT	TTCTTTTATT	TTTATTTTTT
182941	AGATAAAGAC	TCGCTCTGTC	ACTCAGGCTG	GAGTCTGGAG	TGCAGTGACG	TGTTTTGGCT
183001	CACTGCAACC	TTCACCTCCC	GGGTTCAAGC	AATTCTCCTG	CCTCAGCCTC	CCAAGTAGCT
183061	GGGACCACAG	GTGGGTGCCA	CCATGCCTGG	CTAATTTTGT	TATTATTAGT	AGAGATGGGG
183121	TTTCGCCATG	TTGGCCAGGC	TGGTCTCGAA	CTCCTGGCCT	CAAGCGATCC	ACTTGCCTTG
183181	GCCTCCCAAA	GTGCTAGGAT	TACAGGCATT	ACCCACTATG	CATGACCCAT	TCTTTTATTT
183241	CTTAACTTTT	TTTTGTTTTT	TTGAGACAGA	GTCTCACTCT	GTCACCCAGG	CTAGAGGCTG
183301	GAGTGCAGTG	GTGCGATCTT	GGTTCACCTG	AACCTCTGCC	TCCTGGGTTT	AAGCGATTCT
183361	TCTGCCTCAG	TCTCCTGAGG	AGCTGGGACT	ACAGACATGT	GCCACTACAC	CCAGCTAATT
183421	TTGTATTTTT	AGTAGAGACA	GTGCTTTGCC	ATGTTTGTC	GGCTTGCTC	GAAGCTCTAA
183481	CCTCAAGTGG	TCTGCCTGCC	TCAGCCTCCC	AAAGTGCTGT	GATTACAGGC	ATAAATCACT
183541	GCGCTCGGCC	CTTCTTTACT	TTCTTAATAA	ACTTGTTTTC	ACTTTACTGT	ATGGACTAGC
183601	CCCAAATTC	TTCTTGTTGT	AGATCCAATA	ACCCTTTTGT	GTGTGAAAAG	ATGTATTGCT
183661	GCTGTTTCAGG	CTGGAGCAAG	CTGGAGCTCA	TGCTGCTGCT	CAGACTGGAG	CATGCGTGAT
183721	CTGTGATCCC	AGTAAGAGGA	TCATGGTCAC	TCCAGCCTGA	ACGACAGCAT	GATATCTCAT
183781	CTGTAAGAAA	AAAAAATTAC	TAGAGGGCTT	TAACAGCAAA	TTTGAGCAGC	AAAAAGAAGT
183841	AATCAGTGAA	CTCAAAGATA	GGTCAATTGA	AATGATCTAC	TCTGAAAAAC	AGAAAGAAGA
183901	CAGAATGAAG	AAAAAGAAAT	AGAGCCTTAG	AGACAGGGGA	TACCATCAAG	CATACTAATA
183961	TATGCATAAT	GGGACTCCTA	GAAGGAGAAA	AGTGAGAGGA	CAGGGAGAGA	GAATGTTTGG
184021	AGAAATAATT	TCTCAAAGCT	TCCCATGTTT	GGCAAAAAAG	CATTAACCTG	CATACATATT
184081	TTAGGAGCTC	AATGAATTCC	AAGTAGGATA	CACTCAAAGA	GATCCATACC	TAGACACATC
184141	ATAATCAGAT	TATCAAAAAG	TGAAGAAGAT	GAATCTTGAG	AGCAGAAAAG	AAGGAACAAT
184201	TCATCACATA	CAAATAGTAC	TCAAAAGATG	TCTGGAGTAG	GTATACTAAT	ATCAGACAAA
184261	ATAAACTTTA	AGATAAGCAT	TGTTATAATA	AATAAAGAAA	GGTATTTTGT	AATGATAAAA
184321	GTGTCAATTC	ATCAAGAAAA	CATAACATTA	TAAACATACA	TGCACCTAAC	AACAGAGCCC
184381	TAATATTCAT	GAAACAAAAC	TGACAGAATT	GAAGGGAGAA	ATAGAAAATT	CGACAATAAT
184441	AGTTGGAGAC	ATCAATACCT	CACTAGTTAG	ACAAGATCAA	CAAAAAATA	GAAGACTTAA
184501	CACCTGAAAA	CACCTAACCT	GACCCTAACA	TAAATCTATA	GGTCACTACA	CCCCAAAACA
184561	GCAGAATAAA	CATCCTTCTG	AAGCTCACAT	GAAACATTTT	TCAGGATAGA	CTGTATATTA
184621	CTTCATGAAA	TAAGTCTCAA	TAAATGTAAA	AGGACTATAA	TAATAGAGTA	TATATTTCTT

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187921 AGACAGGGCC TTCTGTGT GCCCAGGTT GTCCCAACT CCTAGTCCA AGCAGTCTC
 187981 CTGCTCAGC CACCCAAAGT GCTGGGATTA TAGGCACGAG CCACCCGCTG ACACCAACA
 188041 ATTCAATTAA AAGGTGGGCA AGTGAACCTGA ACAGACATTT CTCAAAAAGAA GGCAATCAAT
 188101 TGGCCAAACA ATATATGAA GAATGTCTCA CATCACTGTA TTAGTCTGTT TTCACTGCTG
 188161 TAATAAGAC TTAACCTGAG GAATGTCTCA CATCACTGTA TTAGTCTGTT TTCACTGCTG
 188221 AGTCCACAT GGCTGGAG AGTCTGAGAT TTACAAGAGA AAGAAGTTTA ATGGAATTAC
 188281 ATCTTACATG GATGGCAGCA GGCAAGAGA CATGGTGGAA GAGGTTGGC CCGTTTAA
 188341 AACCATCAGA TCTCGGTGAGA CTCACTGAGT ATCATTCAGT ATCATTAAGAA AGGAAACTC CCGTTTAA
 188401 GCATTAATTCA GTCACTCTCC ACTGGGTTCC TCCCAAGACA CATGGAATTT GTGGGAGTTA
 188461 CAATTCAAGA TGAGATTTGG GTAGGGGACAC AGCCAAACA TATAATCAAG GTGGGAGTTA
 188521 GGAAATGCAA ATCAAAACA CAATTAAGGTA TCATCTCAC CCAGTTAGAA TGCTATTTGT
 188581 CAAAAAACA AAAAAAACA AATAATTAACA AATGCTGGTG AGGATGTACA GAAGAGGGGA CTCTATGTC
 188641 CCACTGGTGG AATGTCAAT TAGCATAGCC ATTAAGCAMA ATTAAGCAMA AATGATAGG AGTGAAGTAG
 188701 GTTACATAGG GTGGTCAAG CCTCCCTTGA AAGGAACA GAACCTTGTG AATGATAGG
 188761 AGGAACAACA TCTCTTGA CAATCTTGA AAGGAACA GAACCTTGTG AATGATAGG
 188821 CAGTCAAGGA GTTGAAGCA TTACAACA TCAACAACA TCACTTGGG GCTAGTGGT AGAATATCT
 188881 CACAAGCTGT GTTCTCAGGT TGACATATAC TCATTTAAT AGTAAGAAC ACACCTTGG TGCAAAAC
 188941 GTAGAAGATT AAAAAAGTAA TAATATATGT GATGTATGTA TATTTAACA CAATGGCCAT TCCACCCCC
 189001 GCATGCAAT TCAAGAGACC ACCCAACA TATTTAACA GATGTATGTA TATTTAACA CAATGGCCAT TCCACCCCC
 189061 TCATGCAAT TCAAGAGACC ACCCAACA TATTTAACA GATGTATGTA TATTTAACA CAATGGCCAT TCCACCCCC
 189121 AGTAGCCGAC CCTGACTCTG CTATCAGCGT GTACTTTCAC CTGCAATTA ACTCCCTTGC
 189181 CTACTTTTAC TTGGAGCTGG CTTTCAATTT CTTTGTGCA GGAATTCGA GGAATTCGA GATCTGAC
 189241 CAGCCTACTG ACACAGAGG TTTCTCAGAA ACCTAAAAAT AGCTACCA GATGAGGCTG
 189301 AAAATCTGCT ACTGGCTATT TATCCAAAG GAAGGAATC AGTATCAAA GAGACACCTA
 189361 CATCCCATG TTATTGCGT CACTCTTCA AGAGCTGAT ATATAGAGT AACCTTAAT
 189421 GTTCAATTAAC AGACAAATGG ATAGAAATG TGCAATATAT ACACAATGA ATACTATTTG
 189481 GCCATGAGAA GAATGCCAATC TTGTCAATTT TGCAACGTA GATGAACCTG GAGAACATTA
 189541 TGTAAAGTAA GATTAAGCTAG GATTTGAAG GATTTGAAG ATAAATACTA CATGTTATCA CTCATATGTC
 189601 AAAGTAGAGA AAAATTTTAA GCTAGGAT TTAGAGACA GAACTGTGG TACCGGAAGC
 189661 TGGGAAGGGT AGCAAGAGG GAGAGATAGG TCCGGTGTG TGAAGCTGG TAAATGGTGA CAAAATTA
 189721 GCTAGATTGT AGAAATGAGT TCCGGTGTG TGAAGCTGG TGAAGCTGG TGAAGCTGG TGAAGCTGG
 189781 CTGATTTATT GTATATTTTC AAAAGCTAG AAAAGATTT TGAATACTT CAACAATA
 189841 AATGATTAAT GTTAAAGGT ATGATTAAC TAATTAATCT GATTGATTA GTACAGTTAT TATATGTC
 189901 TGTACACATA TAAATATATC ACTCTTATC CCGTATATAT CCGTATATAT GTACAGTTAT TATATGTC
 189961 CTAAAAATAA AAAAAAAGAA GAATTAATC GATTAATCT TATATATAT GTACAGTTAT TATATGTC
 190021 CATGAGATA TTGTATTA GAATTAATC GATTAATCT TATATATAT GTACAGTTAT TATATGTC
 190081 AGTAAAGATT GTTCAAGATT TCTGTGCTT TACTGATAT TTGTCTAGTT ATGCAATCA
 190141 TACCAAAAAA AGGGTGTGTTA ACTCTCAAA TGTGATTTGA GAATTTGCTA TTGTGCTTT
 190201 TCTTTCCAT TTACTTTTA TGTATTTGA AACTCTGTTA TGAATTTG CTATGTTAT
 190261 TAAAACTCG TTATGTTAT TTATCTCTG TGTAGAAAT CATACATTA TGAATTTAT
 190321 GTTCTTGA TGAATGACA CTTTCTATT GTCAITGTT TGTGTTTTC TGAATTTAT
 190381 TCTCACTCTG TGGCCAGGC TGAAGTACAG TGGTCAATC TGGTCAATC TGGTCAATC TGGTCAATC
 190441 CCTCTGGGT TCAAGCGAGT CTCTGACTC AGCTTCACTC AGCTTCACTC AGCTTCACTC AGCTTCACTC
 190501 TGGCAGCATG CCAAACTAAT TTGTATTTT TATTAAGAC AGCTTCACTC AGCTTCACTC AGCTTCACTC
 190561 AGCTGCTCTG CGAACCTCTG ACCTCAAGTG ATCCGCCAC ATCCGCCAC ATCCGCCAC ATCCGCCAC
 190621 TATTTTATTT GAGACAGAGT CTCACTCTGT CACCCAGGGT AGAATGGGT AGAATGGGT AGAATGGGT
 190681 TGGCTCACTG CAACCTCCGC CTCTGGGT CAAGCAATC CCAATGCTCA GCTCCCGAG
 190741 TAGCTGGGAT TACAGGACA TACCACTATG ACTGGCTAAT ACTGGCTAAT ACTGGCTAAT ACTGGCTAAT
 190801 TGGGTTTTT CTATGTTGGC CAGGCTGGCA ACTGCTAAT TTTGTTATTT TTGTTATTT TTGTTATTT
 190861 TGTGCTCTG GTAACTCT CTGTCTTAAA CTGTATTTA GCTGTATTA TATATAGCAT
 190921 TTAGTCTTT TTAGCTTT TTAGCTTT TTAGCTTT TTAGCTTT TTAGCTTT TTAGCTTT
 191041 TTTTAAAGT GATCTAACA ATCTTGGCT TTCAATGAA ATATTTAC CATTAACATC
 191101 TAACATTAAC ATTATTTT CTTCACAG TACACTGGCT AGCATCTCC ATTAATATTT

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194401	CAGGCATGAG	TAGTACGTCT	TGGAAGGTGT	GGTCTAAAGC	CTAGACTCCT	ATCTGCTTCC
194461	TTCAGCATT	TCCAGTGTAT	CTGTCTCTG	TCTACCTTAG	GATAGGGGTC	TCCAGAACTT
194521	CCATTACAT	TTAGAAGAGG	GCAGCGGCTT	TCTATGGAAA	ATATGAACTC	TCATTCATCT
194581	CTATTCCTT	TTCTAGCTAT	GGTCCAGCTC	AGCTGTTTGG	AATAAAGTAT	CTATATGAAG
194641	TCTGCGAATG	GTTCTCAGAC	TGGTTGAACA	TTAGAATCAC	CTGAGTACCT	TCTAAAATTC
194701	TTATTACCCA	GGGCATATCT	CAGAATGAGT	ACCGCAGGGT	AGGGATAGGA	TTAGGGATCA
194761	TGATCTCTGG	AGTCTGGTTT	AGGCACTAGT	GCTGTTTAAA	ACTACGTTCA	TGAGGTGGAG
194821	GTTGCAGTGA	GCCGAGATGG	CGCCACTGCA	CTCCAACCTG	GGCGACAGAG	TGAGAGTCTG
194881	TCTCAACAAA	ACAAAACAAA	AAAAACCAAC	TACCCCTGTG	ATTTGAATGT	CCATCCAAAA
194941	TTGAGAACCA	TTAGGTAAGG	CCAAGCTGTA	TAATTAAAGA	GCAGTTTTCA	TTTGTCTGGT
195001	GTGGTGGCAG	CTTTTTGATA	AGGGAAGTAT	TGTTGCCATC	CACATACCTG	AGCCTCACTC
195061	CTGAGAACAC	TGGTGTGTAT	GTTGCTAAAA	TTCCCCAGGT	GATTCTGAGG	TTCTTCTCTG
195121	GATAAAAACC	ACTGACCCTG	GGAATGTACC	CAGTGCCAAT	CTCCTGCGTA	AACCTTGGAT
195181	ACTGGGAAGC	CTACAGTTGA	AAATATTGGG	CTTGAGATCC	TGAAACAAAT	CTTGATTCTC
195241	ATTAAGACTA	ATATTTGGTA	CAGTGCAGCA	AATCAAGGGA	ATTTTGGTGG	CTGAGTTCTT
195301	TTAGAACTTT	TGCATTGAAA	TAGGTTCAAG	CAGCAATAAG	TTAAACTAC	AACCTCAGCT
195361	AAAGGATTAA	AAGACACGTG	AGCTGGGTAG	GATGAGGTCT	AAGGTTGGGT	GTGGCGGCTC
195421	ATACCTGTAA	TCCCAGCACT	TTGGGAGACT	GAGGTGGGTG	GATCACTTGA	GGTCAGGAGT
195481	TCAAAACCAG	CCTGGCCAAC	ATGGTGAAAA	CCCATCTCTA	CTAAGAATAC	AAAAAAATTA
195541	GCTGGGCGAG	GTGCCAGGCA	CCTGTAATCC	CAGCTACTGG	GGAGGCTGAG	GGAGGACAAT
195601	CACTTGAAC	CAGGAGGCAG	AGGTTGTAGT	GAGCTGAGAT	CGCACCCTG	CACTCCAGCC
195661	TGGGTGACAG	AGCAAGACTC	CATTTAAAAA	AAAAATAATA	ATAATAACAA	TAATAATAAT
195721	TCAGACATAT	CCAGGCATCA	AACAGATACC	TGGGGCAGAT	GAATAGTCTT	GAGATTCAAG
195781	TCACACATGA	AATTTAGGTG	GAAAAAGACA	TTGGAGAAAT	TTGAGATTAT	GATGAATGGA
195841	AATTTTTTCAA	AGAGGAAATTT	CAGGCTCTGT	TCTTGAGGGG	ATAGATGGAC	TTCCAACAGC
195901	AATAACACAG	GATTAATGAG	GACTTGGGAT	GTTACATAAA	TTAGAGATGT	TAGATGGATA
195961	AAGAGATAAA	AGTACTCTCT	CTAAGAACAT	GGGACCAGAG	ATAGGCTCAC	TTCTAACCAT
196021	CAGATATAAC	TAGCAGACTA	AACGGTCTAA	AAATAAAAAAT	CATGCCCCAC	TCCTGCTTAA
196081	GACATTTTAA	TTACTCTCAG	TAACTCTTCA	GTTTTTCTAC	TGTGTTATCT	TTAACTACAG
196141	GGTTGGTCTG	GGTGTGCAAC	ACAAGAAAGC	CTGGCATATA	CATGGATTCA	AGTGTATGCC
196201	ATGTGCAGGT	ATTCTTTCAT	GTACTATTTT	ATGTATTCCT	TTTCACATCT	GTTTTTTCCT
196261	TCATTGAAGT	CAATGGCTGA	TATTAGATTC	TACTATTTCAT	GTGTACTAGT	TATATATAAT
196321	TGTTACAAAA	CAAAATTAGCA	AAAACCTTAGT	GGCTTAAAGC	AACACACATT	TATTATTACC
196381	TAAGGTCTGT	GGATAGAAGT	TCTGACATGG	CTTAACTGGG	TTCCCTGCTT	CAAGCCTCAT
196441	GTGGCTGCAA	TCCAGGTGTT	GGCTGAGTCT	GAATTCCTCAT	CAGAGGCTTG	ATTGTGGAAA
196501	TTTCCACTTC	CAAGCTCCCT	CAGGTTTGTT	GAAAAATTCA	GTTCTTTGCA	CCGGTAGAAG
196561	CTTCTTGGTA	GAGGCTGATT	CAACTTCTAG	AGGCTGTCTG	CAGTTCTGCT	CACCCAGGGT
196621	GGAGTGCAGT	GGAGCAATCA	TAGCTCACTG	CAGCCTTGAC	CTCCCAGAAT	CAATCTGTTC
196681	TCCCACCTCA	GCATCCTGAG	TAGCTGGGAC	CACAAAGTGTG	TGCCATCACA	CCTGCCTAAA
196741	AAACAAACAA	ACGAAAAAAA	ACCCCAGAG	AACTTTGTAG	AGACAAGCTG	GTCTGGAAC
196801	CCTGCGCTCA	AGCAATCTCT	CTGCCTTAGC	CTAAAAGTTC	TGGGATTATA	GGTATAAGCC
196861	ACCATACCTG	GCATATGGCA	AGTCTTGAGC	AGGACAAATA	CAGATGATTT	ATGTCTGTCT
196921	TCCATGGTAT	TCTAGGTTAT	TGTTGAGATG	GTCTCTTATT	GTCTTGTTCC	ATCTATTGAT
196981	TAGATAAAAC	GTTGTTCCCT	CTGTTATTTT	TCAACAGTAG	CTTTTATGTG	TCTCTCTTTA
197041	TCTTAAAATT	CTAACCAAAG	AGCTGCTCTT	TTCTTGGTGT	ACTTTACCTT	TGGTTGATCC
197101	TTCTTAACCT	CTTCTTGCCC	TCTGGGGCCT	AAGATGAGGG	CTGTTATCAG	ATGTGAGTCT
197161	ATGGGAAAGC	AAGCAAGAGG	TTCTTCAGCC	TCCGTTGAGC	CTTAAATGTC	TAGGTAGAAA
197221	TCAGTCATGG	CCCTTCCAAT	GTGGTACAGA	CCAGATCACA	GAGACAGGGG	TCTCAGCCAA
197281	GGTCTTGTGG	CCTAAGCCTT	ATAGAAATAA	TGAGTGTTTA	CTTACTTGGA	GAACCTCCCTT
197341	GGAATATCTT	TTTTTGTGAA	CCTGAGGCAA	CTTTTGGTGA	TTTCTTGATG	TCTTGGGAAT
197401	CTTGGTCTAG	AGCCATTTCA	ACCCGATTTT	TTTTTCATGTC	AGTGGCATTT	TGTGACCAGA
197461	TAGTAAATAA	GTTCTATGAT	GTTCACTCAG	AGAAATACAA	TGACTTATGA	TGCGAAGCTT
197521	CTGTGGTTCA	GCCCTTACTT	CATCTTCATT	CCCTCTTATC	TGCATCTGTC	TCCTGCTTGG
197581	GAACAAAAGT	CTGGCTTCAT	TCTATGACCC	CCACGTTGAG	TTTCTTAGTA	GCACTTACTT

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200881	TTGATGTTTAA	TAAATGGTTAC	AACCTTCCTTA	ATTGCATTTA	ATGTATACCT	TATTGAGTTG
200941	ATTTAACCTGA	GTTAACCTTG	TTATATGAAA	ATCATGATTG	GAGTGAAGGG	GTTTAAACA
201001	GCTACAGAGA	TCTTGATTGT	TGGTGGTGAA	GCAATGCCAG	AATTCATTCA	TTCAGTAAAC
201061	TAACTGGGTGA	CCTTAGGCGA	ACTTATGACA	CTGTCTTTAGT	CTGTTCCAGAC	TGCTGTAAAC
201121	TAAGTGGTGA	CTTATGAGCA	ACAAAAATT	TATTTCTTAC	AGTTCCTGAG	GTTGGGAAGTC
201181	TAAGATTAAAG	GCCCTAGCAA	ATTAGATGTC	TGTTAGGAGC	AGTTCTGAGAG	GTTGGGAAGTC
201241	AGTCCTAAAC	TGGCAGAAAG	GTTGAATGTA	CTTCCCTATG	TTTCTTTTAT	AGGACACATA
201301	ATCCTAGTGA	TGAGGGTTCT	GCCCTCATGG	TATAACTACT	CCCCAAAGAC	CCCTCCCTCT
201361	AATATTATCA	CTTTGTGGGT	TAGGATTTCA	ACATGAGTTT	TGAGAGGATA	CAGACATTGG
201421	GATCATAGCA	CACACCATAG	GACAGACACT	GTGCCAAGAA	TGTGTGATAT	AGTGATTTCT
201481	AAAATGAACA	AGATCCCCTC	AGAGAGCTTG	CAAAATCCAG	CTATAAAATT	ATGCTTTTAA
201541	AACAAATTAT	GCAGTTTGAA	AAATCTACTC	TGAATCTTAC	TGTGTGGCATT	GAAATACCTT
201601	GGCCACTCTT	TCTTATTAT	ATTAATATT	TACTCTTGT	TGGGGATCC	AGTCTCACCT
201721	CATACCTTTT	GCGTAATAAT	TATCAGCTCA	TGCTCTGCCT	TATGC AAA TT	AAGAAAAATAT
201781	TCTTCTCTC	TTTCTCTTTC	AGCCCAAGAA	GTTCCTCCTT	CTTCTCTTTC	TCTCTTCTT
201841	TCTTCTTTC	TTTCTTCTT	TTTCTTCTG	ACAGGATCTT	GCTCTTATTC	CTAAGGCTTGA
201901	GTGCAGTGCT	GCAATCTCAG	CTCATTGCAG	CCTTGAACCTC	CAGGCTCAC	GCAATCTCTC
201961	TGAGTAGCTG	GGACTATAGG	CATGTGCCAC	AACATCAAGC	TAATTTTGG	ATTTTGTGT
202021	GGAGACGGGA	TCTCCCTATG	TGCTPAAGGC	TGGTCTTGG	AGCCACTGCG	TATGCGATTTC
202081	TCCTGCTCTA	GCCTGCCAAA	GTCTGTGGAT	TACAGGCATG	AGCCACTGCG	CCTGGGCCATT
202141	ATAACTAATT	TCATTGGCTT	ATCAGGCACA	TGATAACTAT	AATAAATCAA	TAACCAAGAA
202201	TTTTAAITAA	AGAAAGGAAG	GAAATGTTC	AACCTCTCT	GCTACCCCTC	TATCCCTCAA
202261	AAGGCTAAGC	TGAATGTGT	CCTCCAAA	TATCCATGTC	CTAATCCCCA	GAACTCTGTAA
202321	ATPATTAACC	TTCTAGATT	TTGGAGATGG	AAATACAGAA	AGATGTACCA	CTGCTTGGCTT
202381	TGGCAGATT	TTCCTAGATT	TTGGAGATGG	AAATACAGAA	AGATGTACCA	CTGCTTGGCTT
202441	GAGACAGGCA	GAGAGTCA	AATPAAGTGA	AAATACAGAA	AGATGTACCA	CTGCTTGGCTT
202501	TAAAGTGGAG	GAAAGGCCCA	GAGCCAAAA	ATGCAGTGCT	CACATAAGG	CTGCTTGGCTT
202561	AAGAAATGGA	TTTTCCCTTA	AAGCCTCTG	AGGGGGCACA	ACCTTGCCCA	TACATTTGATT
202621	TGGCTCAGT	GAAACCCATT	TTGGACTTCT	GACCTTTAGA	ATTGTAAATA	AATAAATAAT
202681	TTGTGTGTGT	TTCAAGCCAT	CACAGTTGTG	GTAATTTACT	ACAACAGCAA	TAAATATAGAA
202741	TTAAATACAG	AGATCTGAGG	AGTTGAGTAG	GATAAGCCTA	CTCCAGCAGG	TTATTTCCGGG
202801	AGTATGGTGA	GACTCAGTAG	GATGGCGGAA	CTCAATTAG	GAAAGTCTGA	GCTGATAGAG
202861	CAGAGAGGGA	AGGCTCTCAT	TTCAATTTAT	AAGGTTGCG	TCACACTAGG	AAGATCCCAAT
202921	AGCAACCAACA	GTCTCAAAAT	TAAATGATTAC	AAATAGGACA	CAATTCCAG	AGTCCGGAGC
202981	CACAGCAAAA	ATGATTTAGC	GAAAGNTGG	ACAGTTCAGT	TTCAATTAAGG	TGTGGGACCC
203041	GCAGCTTCT	GGGAAGTTAG	CAGGGCAGTC	ACAGTTCAGT	TTCAATTAAGG	TGTGGGACCC
203101	AAATGCATAT	GGAAAACTA	GCTGACTTAA	CTGAATCTCT	GAAAGTAAAG	TGTGGGACCC
203161	TTTATTGAGG	AGCTACTACC	AAATAGAAAT	TGTATTTCAT	TGTTCAATA	ACCACATGAG
203221	TACAGTAAACA	CAATCCCTTG	TTTACTAAAG	CGGAAGCCCA	TTCAAAAGAG	TTCAAGTACT
203281	TGTCCAAGCT	CAGGGAAAA	ACTAGGAAGT	GAAATATGGGT	CTGACTCCAT	CACATGATTTC
203341	AGGAGGCCCTG	CCCTTCTCTC	CACAGCCATG	CCCCCTGCTT	TCAGAAAAAA	AGGCTTGTG
203401	ACTGAATGGT	TGTATGCACA	GTTCAAAAGCA	GMAACACACG	ATGACATCTT	TTGAGATACT
203461	CTAACAGTGA	GAACTTTGAA	ATGAAGTTAA	AAATTAAGCG	GCAAAAAACA	GCCGAGGCTT
203521	TCTGAAGAAAG	TGGGGCCAAA	CTGTGTGCGG	TCTGACTGCC	ACGTGGCTCA	CTATTTATCC
203581	CTGTAAAAAT	CTGCAAAAAGT	ATTGGAAGG	GAAAGAAAGGA	CAGAAAACTC	CCTCCCTTTC
203641	CAAGTTAGCC	TTATAGTCTA	GGGCTTAA	TACTGGTTAA	TAGGTGAAGG	TAAAGTGGCTT
203701	TCTCTTTT	GGGTAGAAAG	ATTATTACTA	ACTTACCA	GGTCCATTA	GGGAGGGA
203761	CAGTTTAGG	AGAAGTCTAGA	GAAAAAGACAT	TAAACAGCAAC	ATAAAGATCT	CAATGAAGAC
203821	ATATTGCCCTA	ATTCCAAAAT	GAAAGAACTC	TCTGAAAAAG	ATTAATCTGAT	CAATGAAGAC
203881	CCTAAGGCCAA	GGCTTGAGAA	GCCACTGGTA	CCAATGGACA	CTGTGGACA	TGTCATTTTC
203941	TCCAAGGACG	CTGTGAGTAT	TAACTGTGAT	GCTGTGATTA	GTGACTGTGG	TAAACGAGTCT
204001	GGAAATGAAAT	ACTGATCAGA	ACTGACAAAGA	TTTGTGTTTG	GGACTGTGGC	TAAACGAGTCT
204061	TTCAAGACTT	CTATATGAA	TTGAAATGGT	CTCTCAGGAA	MAGGAGAAC	TGGCCGGGCT

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207361	TCTCGAACAC	CTGACCTCAA	GTGATCCACC	CACCTCAGTC	TCCCAAAGTG	CTGGGATTAC
207421	AGGTGTGAGC	CACTGCACCC	GGCCGATACA	TGTGTTTTTA	AAGTCACAGA	AATTTCAGAT
207481	GTCTTGAAGG	ATTTTAAGCA	ATTTAAAAAA	TAAAGTCATA	GAAGCTTCAA	TTTAGGAATG
207541	AATGGAAAAAT	TGATGATATT	CTTAGGATAT	GGATTTTCC	TAAAAGAAAC	AAATGTATGC
207601	ATCCCCAAAG	ATAATTTGAT	TAGTATACAA	ATATTAAATT	AAACATGTCC	ATATTTAGAG
207661	CCATGAATTC	TCTTTGCCTG	TCACAATAGC	TGGATTTATT	CACAATTGTA	GTAATTAGTC
207721	CCTGTTTATT	ATAATTTTCT	AGGTGATATG	AAGACTTTGT	CAGTCCAAGC	AAGTGTCCAC
207781	ATTGTGTGTA	GCAAACATGA	GAATAAACAT	TTTAACTTT	TAAATGTAAT	ACATATTAGT
207841	GTTATGTAAT	GTCATCCTTC	ATGTTTGAAG	GCACATGGAA	CATTGTTCTG	GTGGTACAGA
207901	GGGGAGAGAA	ACACCATCAG	AATGAAAGGA	AAGACCGCTC	TGGAACCTTC	CTCCTTAGCT
207961	CTTGAGCTTA	GTTTAATTGT	CCTGTCTTAT	GGTCTGCTAC	AAGCAATACC	ACTCTTCACC
208021	TTCGCATGCT	TCTCTGTGGT	TTGATAAAGT	ACATGCAATT	TTTCATTTAA	TTCTTCCAGC
208081	TGCTACTAAGA	AAGGAGCCTT	ATCTTTATTG	AACAGATGAG	GAAATGAATG	ATTAGGAAT
208141	TTAAATGACT	AGCTCTAGGT	CACACAGCTG	GAACCTTACAG	CCAGATTTCC	TTTTAACAAT
208201	CCTGTAACCA	AAAGCATACC	AGTAGTGCCC	CATAAAATGT	AAGTTATAGA	GCTGTGTTGG
208261	GTCAAAACTT	TTACTGATGC	TAAGAGGAGG	CAACATTAAC	AAGGGGAAAT	TATTTGTGTA
208321	TTATGTTTTG	GATTATGTTT	TCTCCATAGA	TAAAGACTG	TCGTAGTAAA	AGAGATTACG
208381	GGCACAGGGA	AACTCCACCA	CAAAGCGTGG	TACCATTTCC	CACAGAAGCT	AAATGGACGG
208441	GAAGCCTGCC	ACCAGGAAAG	GTAAAGCCAC	TGCTCTTGTT	TGCAGGCTAT	GTTAATAAGC
208501	TGAAGCTTAT	TCCGACACAT	TTACACATCT	CTGCATCACA	CTGACCCTTC	GTAAAGATAC
208561	TCCCAGTGTA	ACATTGGAGC	CAGCTCCAGC	CCCTGATCCT	GTTGCTTTTT	CCTTAGCCCC
208621	ATGAAATCAT	CTGTGAGAAA	TTAAGCCAAA	TAAGCAATAA	ATCCTGGGAT	CTAGGGAGTG
208681	GAATAAGTTT	TGGGAAAGTC	TTTTTTTTTT	TTTTTTTTTG	CTGAGTCTTG	CTCTGTCTCA
208741	CAGGCTGGAG	TGCAGTGGTG	CGATCTCGGC	TCACTGCAAC	CTCTGCCTCC	CGGGTTCAAG
208801	TGATTCTCCT	GCCTCAGCCT	CCCGAGTAGC	TTGGACTACA	GGCACACACC	ACCATGCCCA
208861	GATGAATTTT	TGTATTTTTA	GTAGAGATGG	AGTTTCGCCG	TGTTAGCCAG	GATGGTCTCG
208921	ATCTCCTGAC	CTCGTGATCC	ACCGGCCTCG	GCCTCCCAA	GTGCTGGGAT	TACAGGCATG
208981	GGCCACCACG	CCTGGCCCCG	GAAAGTCATT	TTAAACCAAC	CTATGTATGA	ATCCCTACTA
209041	TAATATTCTC	ACCAAGCGGC	TGGCTCTTTC	TCCTGAGCTT	GGAAACCTCC	AGTAAAATGG
209101	AAATAATTAT	TTCCAGACC	ACCACTCTTA	TCTGTGAGCT	TTTTTGGCCA	TTAAAAATTA
209161	TTTCTTCCAT	TATATTTTTA	TCTGTGTCTT	CACAGGTTTT	CTCTTTCTTT	CACTTTAGTG
209221	CTTTTCTTCA	AATAAGCAGG	AAAAATCCAA	TCTATCATGC	ACATGGGAAC	CCTTTCAATA
209281	TTGGTCTGTG	GTTGTTCCAT	TTTATGGGGA	TGCTTTTAAA	GAAAAAATTT	GTCCTTTCAA
209341	TATATTGAAT	ATCTTCCAGC	ACCACATCAC	CTGCAAGCTT	TGTAAAAATA	GTTCTACATA
209401	TTAATTTTTT	TTTTTTTTTT	GAGATTGAGT	CTCATTCTGT	CACCCAGGCT	GGAGTACAGT
209461	GACATGATCT	TGGCTCATTG	CAACCTCTGC	CTCCTGGGTT	CAAGTGATTC	TCCGTACTCA
209521	GCCTCCCGAG	TAGCTGGGAT	TACAGGCATG	CATCACCATG	CCTGGGTAAT	TTTTGTATTT
209581	TTAGTAGAGA	TGGGGTTTCA	CCATGTTGAC	CAGGCTGGTC	TCAAACCTCT	GACCTCAAGT
209641	GATCCACCTG	CCTTAGCCTC	CCAAAATGCT	GGGACTACAG	GCGTGAGCCA	CTGCACCCCA
209701	CGTAGTTTTT	TTTTTTTTTT	AAGTTGAACA	TATGTGAAGG	CAGGACCTAG	TGACACATAG
209761	CAATAACATT	TCCAAGTAGA	CATTACACTA	GGGAATTAGT	CGAAGTGCTC	ATTTAAAGTA
209821	CCATCTCTCA	AATGTATTAA	AAGAGAATCC	TTGGATGTGC	AATACCTTAA	TTCAAAGGCA
209881	GCTCGTTATG	TATAAACTCT	CAAGCTTTGT	GATAAACAAA	TGTGCATAAC	AGATGGGACT
209941	ATTCACCTAC	AGCCCAGGGA	ATTTTATTGA	CGCTGAGAAG	GTTATGTGAC	TGGCTCTGCC
210001	ACTGTCATCC	CCATTCACTT	CATTTTGGAG	CAATATGACA	TAAATGCCTT	ACATGTGGGT
210061	TTTCTCTATT	TATCATGTGT	TTCCATATCC	CTTGAAAGAT	GGCCATATTT	GCTTTACTTG
210121	GTTATAAGAT	CCCATATTCG	CTGTCTTGAA	GCCAACCAAA	TAATTTGACA	AAGTGGGTTT
210181	GTAGTGCTGG	CTATTTTGGT	GAAAAAAGA	CAATGAGACT	TCATGTGTCA	TCCAAAGTTC
210241	TATCAGATCG	AGCTGTGAGA	GAAAGGAAAA	GAAAGGGGTC	TCAGTCAGGA	TGCTCACTAC
210301	ATACATCTGT	GTTGTTGTCT	AGGTCCAGAT	TTCTGTTCAT	TACGCTATGG	GCTGGCTCTT
210361	ATCATGCACT	TCTCAAACCT	CACCATGATA	ACGCAGCGTG	TGAGTCTGAG	CATTGCGATC
210421	ATCGCCATGG	TGAACACCAC	TCAGCAGCAA	GGTCTATCTA	ATGCCTCCAC	TGAGGGGCCT
210481	GTTGCAGATG	CCTTCAATAA	CTCCAGCATA	TCCATCAAGG	AATTTGATAC	AAAGGTAAGT
210541	ATGATGGAAA	ATAGGGCTCT	TTGTTGAGAG	AAAAAATTTT	GAAAGGAAGG	CATAGATCTT

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213841	CAGAGCAGAC	ATTCTCAATC	ACTATGCTAG	ACTGCGCTTC	CATGGTATGT	GATCCCTACTC
213901	AGGCGCTTAC	AGCTTTATCA	TGCTGTCTT	CCCGAGCCTG	TCGTGCTGAG	AGTATATACT
213961	CGAAGAGCAG	AACATAAAT	CCATCCAGCT	TCTCACTCCT	AGGTCCAGTA	CACAGCTGCA
214021	TCCTGCGAGC	TTTACCTCA	AGCAACCTC	CTGCGTCTT	AGGTCCAGTA	CACAGCTGCA
214081	TAACTATCTC	CTCTATTTG	AAATACTATC	TGCTGATCT	TCTCTCTAG	ACTGGTTCT
214141	TTCAACCTTC	TTCCCAACCA	AACCAAGTTA	GCTTGCTAAT	ATAAAGATGG	CACATTTTA
214201	CTCACCCGCT	TGAGAAATTT	CAATGTTGTT	CTTCATGCT	ACAGAGTAA	GCTGACCTC
214261	TTTATTTGAT	GAATACAA	GTTCTTAA	CTTCATGCT	ACAGAGTAA	GCTGACCTC
214321	CCCTGCTGCA	GCATGGCTC	AGTGGCTG	ATCTGGCTC	AACCTTGTG	CACCTCACTC
214381	CTGCACTTC	CTCTGGCTC	GCTCCGTTA	GCTTATATG	CTGGAAGTT	CTTGGCCCT
214441	GTTCCCTTGT	CCAAATTC	ATCTATCTA	TGCTATAGT	TATGTAATA	CTTCCCTAAC
214501	CTTTTCTTGT	TTTTTTTTT	TTTTTTTTT	TTTTTTTTT	AGACGGTGT	TCAGCTCTT
214561	GACTGCGAGT	GGCTATCTC	GGCTATCTC	AGCTCTGCT	TCAGCTCTT	TCAGCTCTT
214621	CCTGCGCTAG	CCTCCGAGT	AGCTGGAGT	AGAGGCGCT	CCACCATGA	CCGCTAAT
214681	TTTTGTTAT	TTAGTAGA	CGGGTTCA	AGCAGGATG	GTCTCAATC	CCTGAGCCTG
214741	TGATCCGCTC	GGCTGGCTC	GGCTGGCTC	GGCTGGCTC	GGCTGGCTC	GGCTGGCTC
214801	GCCTAACTT	CTTAATCTT	ATTAATTTA	TCAATTTAT	CTCAGATAT	CTTCCAGCTA
214861	CATTGTTAGT	TTATTTAT	TATATTTAT	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
214921	CATTGTTAGT	TCATTAATC	AGTGGCTG	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
214981	AATAGAAATG	AAATGTTG	AGTGGCTG	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215041	ACCATCGTTT	GAGGCTATG	ATCTTTTAT	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215101	TGTTGTTATG	TACCTGTTA	AAATGTTG	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215161	TGTTGTTATG	TACCTGTTA	AAATGTTG	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215221	TTATTCACAT	TTTCTCTCC	AAATGTTG	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215281	ACCGATTTT	GTAACTCTT	CAATTTCTG	CCCTAGCCTC	ATCTTTTAT	CTTCCAGCTA
215341	GCACCTGTAA	TCACAGAA	ATCTTTTAT	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215401	CTAAGGCTAT	TAGATTTG	CAATTTGTT	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215461	GTTGTTATTA	TTTGTAAAT	TTAATTTAT	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215521	CTATTTTGA	AATTAATCT	CTCATTTG	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215581	GGACATTTG	TAGGAGGCT	AGCACTCTC	AGCTTTTAT	TCAATTTAT	CTTCCAGCTA
215641	CCCTTTTCT	TTAGGCTCA	CTTCTCTCT	CTTCTCTCT	CTTCTCTCT	CTTCTCTCT
215701	TCTCAGAGG	CTTGAAGCT	CTTCTCTCT	CTTCTCTCT	CTTCTCTCT	CTTCTCTCT
215761	AATCCCTAAG	CCTCCATTT	CTGAGCTAT	ATCTTTTAT	TCAATTTAT	CTTCCAGCTA
215821	CTATATGAA	GAATAATG	TTTATCAAT	GAAGATGAT	AAAAAATG	AACGGTTG
215881	ATCATTTT	ATCTAGTCA	ACAACCTG	TAACACCTT	CTGCTGCT	TGGAGAGCA
215941	CAGGACAG	GTAGAGAG	TGACTATTA	CACTGCTG	ACCGAGCT	GATGAGCT
216001	TGCTCTCTCA	TATCAAGCA	CTTCTGCTA	ATCTCTGCT	CCACATCTG	AGTGGCTG
216061	ATAATGCTG	AGATGCTCA	AGATGCTCA	AGATGCTCA	AGATGCTCA	AGATGCTCA
216121	TATATTTAT	ATTTCTGCT	AGATGCTCA	AGATGCTCA	AGATGCTCA	AGATGCTCA
216181	AGATGCTCA	CAATGCTTC	AGATGCTCA	AGATGCTCA	AGATGCTCA	AGATGCTCA
216241	TGCTCTCTC	TTTCTCTCT	TTTCTCTCT	TTTCTCTCT	TTTCTCTCT	TTTCTCTCT
216301	CTCCTTTCT	TTTCTCTCT	TTTCTCTCT	TTTCTCTCT	TTTCTCTCT	TTTCTCTCT
216361	CATCACTTG	GTGCTCAT	GTGCTCAT	GTGCTCAT	GTGCTCAT	GTGCTCAT
216421	TCCAATTA	AGAGGCTAT	TAAGAGAA	TAGTCTCTG	ATTAATGAT	GAATGATG
216481	TCTTCAATA	AGGAATTT	ATTAATGAT	GAATGATG	GAATGATG	GAATGATG
216541	CCAAATGCT	TCAATTAAT	TAGTCTCTG	ATTAATGAT	GAATGATG	GAATGATG
216601	TATTTGCT	TGTAATGAT	AACCAAGTT	TGTAATGAT	AACCAAGTT	TGTAATGAT
216661	AATGATGTA	TGCTTGAAT	ACAATAATA	CTGCTCTCT	TGTAATGAT	AACCAAGTT
216721	CCCTGCTCA	TGATTTCTG	GAAAGTTG	TGCTCTCTG	TGTAATGAT	AACCAAGTT
216781	TCAAGTCTT	CGCAACAGA	CACTTATG	TGCTCTCTG	TGTAATGAT	AACCAAGTT
216841	TAACTGTA	ATCAATGAG	ACTTAAAG	AAATAATG	AAATAATG	AAATAATG
216901	GTATCTCCA	GAGGCTCTG	ACATTTGCA	ATGCTGCTT	TCTATTTG	ACGTAATAT
216961	TAAAAAGCT	TAAAGGTT	GTAGAGGAT	TGTAAGAA	TGTAAGAA	TGTAAGAA
217021	TATGGTAGA	TAAAGCTAT	TGATTTAGT	TGTAAGAA	TGTAAGAA	TGTAAGAA

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220321	AGGGCTTTCT	GAGGAGGGTC	ACACAGAAGA	CCAAAGAGAA	CTCATGTTGA	ATTGAGATGG
220381	GTTGTAGTGA	TAGTTGTCAA	CAGCCAATAC	AGAAACAAAA	AAAAACAAAA	CAAACAGCAA
220441	CAACAACAAC	AAAAAAAAAAC	AGAGAAGACA	CAAAACACAAT	GCCACAATGC	CATTTTAGGC
220501	ATAATTTTAA	ATGAGTAATA	TTATATGTTG	AAATCCAAAT	TTTCAGAAAA	ACATTAGTGT
220561	ATTTTATTTT	TGTTTAAAGA	AATAACCATC	TCAACTCAGA	ACCCCATGTG	CATTTTGGCC
220621	ATTTTGTTC	CAATAGTTTC	ATAAACTTTC	TTAAGTAACT	ACTGCACATT	GTTCTTATA
220681	TTCTTGTGA	TCAACATTGC	AATACACAAC	TGGGAGGGCT	ACTAGAAGT	GTGTAGAAGG
220741	AACTTGTGAG	ATTGATCATT	TTCTCTGTTT	TTTACATCTA	GGATTTTGAG	TCTGGTTGGA
220801	GGAATGTCTT	TTTCCTGTCT	GCTGCAGTCA	ACATGTTTGG	CCTGGTCTTT	TACCTCACGT
220861	TTGGACAAGC	AGAACTTCAA	GACTGGGCCA	AAGAGAGGAC	CCTTACCCGC	CTCTGAGGAC
220921	ATAAAGTTAC	AAACTTAAAT	GTGGTACTGA	GCATGAACCT	TTTAAACATT	TTTTACTTCT
220981	CTCCATATTC	CTGACCATAG	ACTCAGCAGT	TCTTAACTCT	GGCTGTGTGT	TAGTCTTCCC
221041	TGGGGAGCCT	TTATAAGACA	CTGATACTTG	GGACCCACTC	CAGAGATTCT	GAATGAATTG
221101	GTCTGGGGTG	GAACCCAGAT	ACTACTAATT	TTTAGATACT	CCTTAGAGGT	TTCTAGCATG
221161	CGCCCGGGGT	TGACAACAGC	TGGACAAACT	TGAAAAGTCA	ATTCATGTGG	CCTTTGAATT
221221	TTCTCATTTG	GAAAGTACTA	AATAAATAAA	AATTCATGTG	AAAATGATCA	CTGATAAATA
221281	TCTTCATGGT	GGGGCAGGTT	ATTGGATGCA	GAGAAGATCT	GCTCGGAATT	GTAGCCATAT
221341	GTTACAGATC	TCAGCACCGA	TCGGAACGTG	AAAGCTATAA	TCCCAGAAAT	TAAAGTTTTT
221401	ATTATTTTTT	ATACATTGTA	AAACATAGAC	GTTTATTTAT	GTGATTAAAT	TCTATTAAAA
221461	TTTACATGCT	AAAATAAAAT	AGACCATTTT	CAAATTATTT	AGATCCAGAT	ATTTCCATCA
221521	GATTAAACAG	ATATTTATTT	ATCCTAGCCC	AATTGCAAGA	GATTAATGAT	GAGAAAATGA
221581	CCAATACAAG	ATTAAATAAA	TGAGGTAAAC	TTAGAAATCA	AGGACAGAGA	AGATAGAACT
221641	GGAAGGCTTG	TATTGTGAGA	AGAATGAATG	TGAAGGAAGG	CAATGTAGAC	ACTTCCAGAA
221701	GGGATAGCAA	TATAGTTTAG	ACCATATAAT	GAAAATTGGA	GAGAGATGAC	AGAGACACTT
221761	TCAAGTGAAA	TGACAATTTA	TATGGGGGAG	AAAAATATTG	AAGACATAAC	AAGATGAGAA
221821	AAGGCATAGA	AATGTATCAC	ATACAAGGCA	TAGAAGTGTA	TCACATACAA	GAGAAGTTCC
221881	TTTTGAGCGT	AGAAAAAGAT	AATTTAACCT	TCTTCATATT	TTTCTTACTT	TCCCAAGATA
221941	CTCAGATAGG	CAGCGTCAAC	TCTAACAGGA	ATTAATTTGG	CTCCTAACAC	TTAAGACATA
222001	TCCTTTAGTT	TGTCTCCTCA	CACAGAAGT	ATTCTGGTTT	TGCCACAACA	TGTCTAGAGA
222061	AGAAGTTCCC	ACCATATTTT	AAATCCTATT	AAAAAACTGC	TTGGACAAGA	ACCTTGGGTT
222121	AATTCAGCAG	ATGAAGAGAA	TCTCCTAATG	CAAATCAATG	GGTATTTTGT	AGCAAGTTTT
222181	TCAGAAAAAC	AGAGTGTCAG	GCCCTGAGGG	TGGTACTAAG	ATGAGAACAT	TGATTTTGCC
222241	TTCATGATAT	TGACAACACA	AAGAGGAAAG	GGGGTTTGCA	GAAAACTAAA	AGAAGAAGTA
222301	GAAGAAAAAA	GAAAGACATA	GTATAATAGG	TAGTCAAATT	ATGTACAGAA	AAAAGAGAAA
222361	AAAGAAAAAC	AAAAGGGTGG	GGGACGAGCA	ACCCAACTAA	AAAATGGGCC	AATGACTTGA
222421	ACAGGGACTT	CATAAAAGAG	AAAATGTAAG	TGGCTCCTTA	ACATATAAAA	AGATGTTCAA
222481	CTTCATTAGT	CATTACAGAA	ATGAAAATCA	AAACTACAAT	GAAATACCAC	TATAAAATTA
222541	ACTAATGGAT	AAAATGAAAG	GAGATGGAAA	ACAAAATGTT	GCCAGACATG	TGGAGCAACT
222601	GGAACTTTCA	TACGTTACGA	ATGTGAACTT	TGGAAAGCTG	CTCGGCAATA	TCTCCTAAAG
222661	CTAAATGTAC	AATTCCAGTG	ACTCAAACAT	TTTACTTAGA	AATGCACATA	TACATCCATA
222721	AAACATGTAC	AACAATGTTT	ATAGGAGCAC	TATCTGTAAT	AGCCTGAACA	GGAAGTTGTC
222781	TGTTAAAAAA	AGAATGAGTA	AATAAACCAC	GGTCTATTTG	TATAGCAATG	AGAATTAACA
222841	GACCCCAATA	TATAATAGAT	GAATGGGTCT	CATAAGCACA	ATATTGATTA	AAGGAAGACA
222901	AAACGCACAT	TCTTTTAAAG	GTTTATAAAA	TACTTTTTTAA	AAACAGCTAC	AACCAATCTG
222961	TCCTGTTHAA	AATCAGTGAG	CGATTTCCCT	TGTGCAGGGA	TGGGGGTTGT	GGCTGGATGG
223021	ATGGTACTTA	AGAAGTGCTC	CTGGGGTACT	AGAAATATTT	TATTTCTTGA	CTTGGATGTG
223081	TGTTTACTTT	GTGAATATTG	TACATTTATG	ATTTGTGCAC	GTTTATGAAT	GTAGAAAATA
223141	AAACAGAAAG	CAAATTCAAA	GTATCATCCT	TTTGAGAGCT	TCTGCTCTGA	CTTCGTTTTG
223201	ACCAATGGAG	CAGTTGGGAA	GGGGTCTTGG	TCCTTCGGTC	CTTTGCTTTT	TTTTTTTTTT
223261	TTTTTTTTTT	TAGACAGAGT	CTTACTCTGT	CGCCCGGGCT	GGAGTGCAGT	GGCTCGATCT
223321	TAGCTCACTG	AAAGCTTTGC	CTCCCGGGTT	CATGCCATTC	TCCTGCCTCA	GCCTCCCCAG
223381	TAGCTGGGAC	TACAGGCACC	TGCCACCATG	CCCGGCTAAT	TTTTTGATAT	TTTTAGTAGA
223441	GACGGGGTTT	CACCATGTTA	GCCAGGATGG	TCTCGATCTC	CTGACCTCGT	GATCCGCCCA
223501	CCTGAGCCTC	CCAAAGTGCT	GGGATTACAG	GTGTGAGCCA	CCGCGCCCGG	CCCCTGGTCC

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226801	GGGAATGTTTC	TGAATTCAGA	ATAACTGAA	CAGTACAGGA	TAGGAACCTCA	TTCTTTCAA
226861	TGAAGCTGGC	ATATTTCCC	AGAAGCACCA	AATTCATAT	TAAGTGTAG	TTCTTTCAA
226921	GAATGATACA	ATAAAGTGGT	TAGAACCTTT	ATTAAATTA	ACTTATGTC	TGAATATCTT
227041	ATTCTAATA	TAGTCACTCT	TCATCTTAT	TGATCTTAT	ACATGTTTA	TGTTTTCTT
227101	AAGGAATGCC	TAAAGTTTTC	AAAATTTCTT	TACATGTTGT	ACAATCAAAA	GAGTCTGAAG
227161	ACCATTAGC	TATCGAATTT	GTTTATTTT	AAGCATGTTT	CCTTCTAATA	TTTACGAGTT
227221	ATATCCCTTA	AAAAATTTGC	TTAGCACAGG	AGAATTGCTT	GACGCCAGGA	TACCGAGGTT
227281	GCAGTGAGCC	AACACAGTGC	CAGTGCCTTC	CAGCCTCGGC	GACAGAGTGA	GACTCTGCT
227341	CAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA	GCCCCAAAA	AATAAAAACA	CAAAAAATC
227401	CGCCTTAACA	TTATTTGTTT	ATTAATAACT	TTCTTTAATA	CTACTAGTTT	CCCTTTCTC
227461	TCAGCCCAT	GTATATTTT	GATTTTATTT	TTTTTGGAGA	TGCAGTCTCC	TTTATTTGAG
227521	TTTATTTTTC	TTTATTTTTC	TGCAGTCTCC	CTCTGCTTCC	TGGGTTCAAG	CAATTTCTCT
227581	CAATCTTGGC	TCAGTGCAG	CTCTGCTTCC	TGGGTTCAAG	CAATTTCTCT	GCTCTGAGCT
227641	TCAGAGTAG	TGGATATACA	GGGAGCCCAT	ACCACGCTTG	GCTAATTTT	GTATTTCTGG
227701	TAGAGACGGG	GTTTCACCAT	GTGAGCCCAT	CTGCTGCTTG	ACTGCTGAG	TCAAGTGAATC
227761	CACAAATCCT	GGCCTCCCAA	AGTGCCTATG	TTCAAGCATC	GTGAGCATC	CCGACCCAGA
227821	ATATATGTT	ATTTTGAGTC	CTTAACAAA	GTCAATAAG	TTTAAGGAT	TCAGTATCT
227881	TCATTGAGAA	ATCTCTGAAA	AGATGCCCAT	AATTTGTAG	CAATATAT	GATTTCTCT
227941	TTTCATATG	AGAATTTGTT	TTTAAAGT	TTGTATGTT	GAAATTTT	GCACTGTAGT
228001	TAAAGAAACC	ACCTGTGTGT	TGGTTAAGC	ATTAAGTAC	GTATTTCAAT	AAATTTGAGT
228061	GGGTTACTC	TGAGAATCAA	AGGAAACCT	GAGAAACAG	GCAGCCTCAA	AAGGTTCTAG
228121	CTGTAGCAAC	TTGCTCCATT	GTGAAATTA	ATAAGCTTGA	ACTTGTATTT	TCCTCTACT
228181	CAACTTTTAA	GGTCTCAGAA	GATTAATATA	TTGGTGAAT	TAAAGTAAAG	TGCTCACTCT
228241	TTTGCTTTAA	CAGAACCTTA	AGAGTCTGTA	GGCAGAGCCT	CAACAGAACCG	TTTAGCTTC
228301	CAAGGGAGT	TCAGSAGCAC	ATGAAATGCT	GACAAAGAGT	GGTAAAGATA	CCTTGAATAA
228421	AGTTTATATA	AAATTTATTT	TTTCTTTT	TATTTGTAT	GAATAGGACC	AGTTCTACT
228481	AAGCCACCCA	TTTGCCAAAA	TAAAGTGA	ATCGTTTCT	TTGGGAGACT	CTCTTTGTAG
228541	CTCCAAGTGC	CACTAAGCAT	TCTTAGGACC	TGAGCTTATA	GCCAGGTGAT	TTCAAGTTAAT
228601	ATGATCAATT	ATTTCAATTA	AATGGCTCTA	ATGTGCAGAG	GGAACGGGAG	CCATCAAGCAT
228661	TCCCTGCAGG	GAACCTGAGT	GGCTTTATC	AACCTTGACA	GCTAGCTTTC	AACTGTGTTG
228721	AAATCACTTT	CAGGGTGGTC	ATGTAGTTGC	TTTTTGAAA	TCAGAAAGATG	ATTCTGCTTC
228781	TTTTAATATG	TGACTCTCTCA	GATTCAGAAA	GTGCTCGCTA	GTCTTAAAG	TGAATTAACC
228841	TCAGTGGTCC	AGCGCTTATG	AAACCCACATC	TAAACCTTATC	CCCTGGGGGA	ACTATCAGAG
228901	AAATTGGTGC	CATGTGCATG	AGAGTGAAGC	ACMAAGTGAAC	AGAGAGGCCCC	GCATGATGAA
228961	AATCAGTGA	CAGCATCAT	ATTACACAT	TTGATGATC	CCAGAGACAT	TGGAATCCAG
229021	GCCAATCTGG	CACCATGAGC	TCATAATTT	GTGGAAGTTC	TTGGAAGTTC	TCAGATACAG
229081	TGACTGTITA	GCCATTTTAG	AGTGTGGCAT	ACGTGGCTGC	TGGCATACAG	AGGTTGGATG
229141	TAAACGGGGC	TTTGCCCCCT	CTTATGMAAC	TAGACAGGAA	CTAAACTGTG	TCACATAGGT
229201	TCCAATGGT	GGCCTGATA	CTATTTACA	CTAAGGTACA	ATGAATTTGA	GTAAAGTCTT
229261	TCCTCTTTTG	CAGATACCAT	CATTAATTC	ATATTTCTTC	AAAGTTAAT	ATTTGTATTT
229321	GGTAATTTT	AATAGAAATG	TAAATAATTC	TTCTCAAGTT	TAGTCTTTAG	TCTTAAAGTT
229381	GATGCTCTCC	ATGTCTCTCC	AAAAAAGGT	ATGTTGCTTT	TATTATATCC	TGCGCTTCAAG
229441	ATGGGATTA	TCCATTTTGT	TCCTTGTAA	TATNATCTTT	GAGCCACTTT	TTTTGTGGCT
229501	CTGGGTAGA	TGCTATTAGT	ACATAGCATA	GTGATGAGT	TGTTGTCTCT	GTCACAAAAAG
229561	TGGATAGCCT	AAGTGGTGA	TTTTACCTCC	ACTCCCAATA	TATGTATCA	ACACAGACCG
229621	TATGCCAGGC	ACCACCTTAG	GTGCTAGGGA	TACAGACATA	AACAGACAAA	TGAGTATAT
229681	GCCCATGTGA	AAAGAAATTA	GACAAATAA	AAGTAAAGT	CATGTTATAT	TGAGGTTGCA
229741	AATGCTAAAA	AGAAAAATTA	AGCAGGCCAA	AGGACTCAT	GAAAAAGATG	CATTTGGGTA
229801	AAAGCCCATG	TATATATGTT	CTATTTGTT	TATTTCTCTG	GAGAGGCCCT	ACTAATACAG
229861	AATGACTTTG	AGAAGTACT	GGCTTTGAT	TTATCAGACT	ATTCCGAGTG	CTGAGAGCCT
229921	TCTTAGTGTG	TATTCAGTGT	TTTAAAGAG	CTGTGGATG	AATATATAAT	AGGACAAAAAT
229981	TTATCCAAA	TTAAGCCTTG	CTTAAAGTAA	AAAGGCTCTC	CTTCAAGGT	AGAAAGTAT

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233281	ACCTTAACAG	TCCTGAAGAT	CATTTGCTTT	TTTTTCATAA	TTACACCGGA	GTTATAGATT
233341	TTTTGAAATA	ATACCACAAG	GGCAAAGGGC	CCTTCTTGTC	ACATCATTTT	AGGGAGAACA
233401	TGATATCCAC	ATGACATCAC	TGATATTAAC	CTTCATCATG	TGGTTTAGGT	AATGTTTCAG
233461	GTTTCTCTAC	TGCAAAGTGA	TTTTTTTCCC	TTAATTTAGC	CCACCTGAAC	TTATCAATTT
233521	TGTTTTCTTC	CATGACTAAT	ACTTTTGTTA	TTATAGCTAA	AACTTCATTG	GGGCCAAATC
233581	TTAGATCATG	TAAATTTTCT	TCTATATTTT	ATTCTAAAAG	CTTGTAATGT	TTGATACATT
233641	CTAAAAGATG	TAATGTTTGA	TACATTACAT	CTAGTCCTTT	GATTTATTTT	TAGTTACTTT
233701	TGTATAAGGT	GTGAGAGATG	TCTCCAGTTT	CACTTTATTA	ACACATTGTG	GTGTTCCAGT
233761	ACTATTTGTT	GCTAAGACTA	TCTTTTTTCC	ATTGATTACC	TTTGCCTTAG	TTGGCAATAT
233821	TTTTGTGTGT	TTATTTCTAG	ACTGTTTATC	TCATTCCACT	GATTTGTGTC	TATCTTTTTG
233881	ACAAAACGTG	TGATTACAGT	AAGCTTTGAA	ATAGTTCATT	TTTTGTGTCA	ACTTGACTGA
233941	GTCAGGGGAT	AACCAGCTAT	CTGGTTAAAC	ATTATTTCTG	GCTGTGTTTG	TGAGCGTGTT
234001	TCTGGATGAG	ATTAGCCTTT	GAATAGGTGA	TCCTAGTAAA	GTAAACTGTC	TTCCCAAGTG
234061	TGGATGGCAT	TATGCCACCT	GATATTCAGG	GTCTGAATAG	AAGAAAAGGC	AGAGGAAGGG
234121	GGAATTTGGG	CCTTTTTTTC	TGCCTCACTG	CTTGAGCTGG	GACATCTCAT	CTGGTCTCCT
234181	GCTCTTGAAC	TGGGATTTAC	ATCATCAGTT	CCTCTGGTTC	TCAGGCCTTC	AGATTCAGAC
234241	TGAATCATAC	CACCAGCTTT	CCTGGGTCTC	CAGCTTGCAG	ATTACAGATC	ATGGGACTCC
234301	TCATCTTCCA	TAAATGCATG	AGCCAATTCA	GTCTATGTCC	TTGAAAACGT	CCCCACTGCA
234361	GATTAAGGCT	TTTTTCCACT	AGGTGAAATA	AAGAAGCTTG	TTAGACAGAT	TTCCCTTCAT
234421	CCAGTGCCCT	CTCCTCTTTA	AGTTACAACA	CATTGGCTAC	ACCTAAGTGC	AGGGGTGGGG
234481	ATGAGGGTAT	AGTCCTCTTG	TTTGCTGAGA	AGAGAACTGT	ATTGGGAAAG	CTCTAGAAGT
234541	GTTTGATACA	TACATAAACA	AGGCATGGTT	TTTGCACCTA	ATTTACATT	ACATTTTTTC
234601	CAGAAAAAAA	GGAATGTATA	GGCATCACGT	AACTGTACTA	GCTGGAGTCA	TTCTTCCTGA
234661	TTATCAAAGG	TAAACAGTTA	TTAATCCTAT	ACCAAGATGT	CAAGGAGAAG	TACTTTTGGA
234721	ACACAAGGAA	TTCTCTGGGA	GTCCTTACTA	CTCTCAAGCC	CAGTGAAAAA	GTTAATGAAA
234781	AACTATAGTA	CCTTCCTATA	AGCTGGATGA	CTAATTACCA	GGCTCATTTA	GGAATTTGCC
234841	TTACCAAGTA	AAACATAAGG	GCAGCTGAGG	TGCTGACTGA	AGACAAATGG	AGCATAGAAT
234901	AAGAGTAGTA	AAGAATGCCA	AAAATGCTGT	CATGTATCCA	TTGACAAAAG	GAGCTATAAA
234961	GCCTTTAGGT	ATTTTTCACAC	TTGCTCTGTT	ACGTAAATGT	ATGTGTGTGT	GTGTGTGTGT
235021	GTGTGTGTGT	GTG				

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3241	TTTCTTAAGA	CCTAACAGAA	TTTGCCCTTG	CAGGTTTGG	ACTTGATTAG	GACACATTAC
3301	ACCTTCCTTC	TTTCCTATT	CTCCATTTC	TAATGGGAAT	GTCATTATG	CCTGTTTCA
3361	CATTGTACCT	TAGAAGCAT	TAACATTTCT	GCTTTCACAC	GTTCAAAAG	GTGATTTT
3421	TTGTCTCTG	GATGAATC	ACATTTGAG	GCATTTTCT	CCTGATTTA	AGGATTTT
3481	AGATGACAC	TTGAACCTT	GAAATTTT	TGAATTTT	TAAGATTT	AGGATTTT
3541	TGGGATGGA	TAATTTT	TTTGTGAT	AGACGATG	TAAGATTT	AGGATTTT
3601	GAGTGACAG	GACCATCTT	GCTCAGAT	AGACGATG	TAAGATTT	AGGATTTT
3661	CATGCTCTG	CCTCAGAT	AGACGATG	AGACGATG	TAAGATTT	AGGATTTT
3721	TTTTTTTAT	TTTAGTAG	AGGATTT	AGGATTT	TAAGATTT	AGGATTTT
3781	TGACCTCTG	ATCCGCTG	AGGATTT	AGGATTT	TAAGATTT	AGGATTTT
3841	CATGCCCCG	TGGGATGGA	TAATTTT	TTTGTGAT	AGGATTTT	AGGATTTT
3901	GCTCAAGGAC	AGATGTTAT	GGAATTT	TTTGTGAT	AGGATTTT	AGGATTTT
3961	TAAACCCAG	TGTGATGCA	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT
4021	TCACAGGATA	GAGGCTTAT	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT
4081	GAGCTCTCT	TCCACGCAAG	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
4141	CCATCTCTG	GCCAGGACAC	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
4201	TTCCAGGCT	CAAAAGTGT	GATTTCTAC	AGGATTTT	AGGATTTT	AGGATTTT
4261	AAAAGATTCT	GTTGTTTAA	CCATCTCTG	AGGATTTT	AGGATTTT	AGGATTTT
4321	GCTAAGACAA	TGAAGGATG	CCATCTCTG	AGGATTTT	AGGATTTT	AGGATTTT
4381	AATTTAGCAT	GCTTTCTCT	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT
4441	CATGTTGGCT	CCTTTTCT	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT
4501	CATCCATG	AGTTCTGAC	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT
4561	CATTTTAT	TGAATCTAC	ATGCTTAT	AGGATTTT	AGGATTTT	AGGATTTT
4621	TTTATCTCT	TTTATATAG	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT
4681	GCAATGAG	GCTGAGG	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT
4741	CACATGAGT	AAACCCCTG	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT
4801	TGCTGTAGT	CCAGTTTAT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
4861	GTTGCAATG	AGTGAATAT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
4921	AAATACATA	AAATGATTT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
4981	TATAGGTTAT	GACTGCTCT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5041	ACAATATTA	GATTTGAA	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5101	ATTGCTCAT	CTCCATATG	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5161	ATGCAATTA	TTCAACAG	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5221	CAACCTTTA	GAGGTTTGT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5281	AAATTTTAT	ACTTCTCT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5341	AAATTTTAT	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5401	TTGCTACATA	GATTTGAA	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5461	TGATCTGCT	TGTTCAAG	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5521	CTCAGTAAT	TCCTGAG	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5581	AGACCTCTG	GTTTACAT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5641	CATTCAGCA	AGGAGATG	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5701	ATTGATGCT	CAATGATTA	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5761	GGCATTTCA	AGTAGAAG	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5821	GAAATGCTT	TGCTCAGG	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5881	CTGGCACTT	CTGTGTTCT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
5941	CCTCTTAAG	AAAGACTGT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
6001	CTGCCATGA	AAATTTGAT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
6061	GTGTTTTTT	TTTGAAGT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
6121	TCTCTTCT	CAGCTCTCT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
6181	ATTTTGTAT	TTTGTGAT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
6241	TGCCCCAGG	TGAGTGCA	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
6301	TTCAAGTAT	TCTTCTCT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
6361	AACACCCCA	CACCTGACT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT
6421	GCCAGGCTG	TCTCAACT	AGGATTTT	AGGATTTT	AGGATTTT	AGGATTTT

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9721	AGCTGCAAGT	GGCGCGGGAT	GATGCGAGTC	TTCTTGTTGT	CGCGAGCCGC	GTTGCCGGCC
9781	AGCTCCAGGA	TCTCGGCGGT	CAGATACTCT	AACACCGCCG	CCAGGTACAC	CGGCGCGCCT
9841	GCCCCAACCC	GCTCTGCGTA	GTTGCCTTTA	CGGAGCAGGC	GGTGCACTCG	CCCCACCGGG
9901	AACTGGAGAC	CAGCGCGAGA	AGAGCGGGAT	TTCGCTTTGG	CGCGAGCTTT	GCCTCCTTGC
9961	TTACCACGTC	CAGACATTGC	AATCAGACAA	AAATCACCAA	AACCAGCAGC	CTAAGCTCAC
10021	GAGAAAACAA	ACAAAATCAA	GAAATATGTA	AAACATGGCC	GCTTTTATAG	GTAGTTCCTG
10081	GGGAGTAAAT	CCGACTTTTT	GATTGGTCGG	TAGCAAATGC	TAGTCAGATA	GCCAATAGAA
10141	AAGCTGTACT	TTCATACCTC	ATTTGTCATAG	CTCTGCCCCAC	GGATGACAAC	TGTGTAGTTT
10201	GTCTTCCAAT	TAACTAAGAG	GTACTCTCCA	TCCCTCATT	GCATAAAAGC	CCTATAAGTA
10261	GCAGAAATCC	GCTCTTTACT	TTCGACACAT	TTCTGGTGTT	TTAAGATGCC	TGAGCCAGCC
10321	AAGTCTGCTC	CCGCCCCGAA	GAAGGGCTCC	AAGAAGGCAG	TGACCAAAGC	GCAGAAGAAA
10381	GATGGCAAGA	AGCGCAAGCG	CAGCCGCAAG	GAGAGTTACT	CTGTGTACGT	GTACAAGGTG
10441	CTGAAACAGG	TCCATCCCGA	CACCTGGCATC	TCTTCCAAGG	CCATGGGCAT	CATGAATTCT
10501	TTCGTTAACG	ACATATTTGA	GCGCATCGCG	GGCGAGGCTT	CCCGCCTGGC	GCATTACAAC
10561	AAGCGCTCGA	CCATCACCTC	CAGGGAGATC	CAGACGGCCG	TGCGCCTGCT	TGCTCCCGGA
10621	GAGCTGGCCA	AGCACGCCGT	GTGCGAGGGC	ACCAAGGCCG	TCACCAAGTA	CACCAGCTCC
10681	AAGTAAACAT	TCCAAGTAAG	CGTCTTAACA	CCTAACCCCA	AAGGCTCTTT	TAAGAGCCAC
10741	CCAGATACCC	ACTAAAAGAG	CTGTGGCCAG	ACGCCAAATT	TTATTTGGCG	GCGGAGGGGT
10801	ATTAGAATGT	AGGAACTGGA	GAGGGGTGGG	GACAAGTGTT	GCAGCTTAGA	GAGGGACAAA
10861	GGGTCTTGAA	CCCGAAAGAA	GCCAGCCATT	AAAAATGGGT	TTGGGGTCAA	TTCGTTGTGC
10921	TTAAATTTAA	AATGGGGACA	AGCGGCCATT	TTGCTAACTC	GGCGTTCCCG	GAAGAAACCG
10981	CAGGCTCGCT	TAGGTTTCAG	ACCCAGCTGT	CTGTCCCTGT	CTACGTCGCC	AGGATCAACG
11041	GTTGCCGTAA	TGTCATAATT	TCGCCACCAG	CTTCTAGCCA	ATAGGCTGTC	CTGTCATTTT
11101	AAATATTAAC	CAATCGAGGG	AAAGCTGTTT	TGAGACTCTG	ATTTACATAG	CGGACCGGAG
11161	TGGGAACCTG	GGCAGTAAC	GCCTAAGGAA	GGACTCCCC	TCTGTTTTCG	TGGCGCACAC
11221	CTTCGTAGTA	TACTGAAGGG	TGTTGTCTCT	GGGTTTCCAA	CTGCCCCGGT	AATAGTCTTT
11281	TAACCTAATA	TGCGTCAGTT	TTGATAACAA	CACCTAAGGCA	GTACAGAACT	AAAGATGTAA
11341	GCACTGCGCC	AGATGTTGCT	TCATACATCT	TATTCTATTC	AACTGGTTTA	TTCAAGATTC
11401	AAATCAAATC	AAATTTTGCT	TGAATCCAG	TGCTCAGTCA	GCCATAAATG	GTGTGTTGCC
11461	TGATTGAAAC	TTAAAATCTC	CGTAGGGGGC	TTGTAACATG	CAGAAAAGTT	TGAAAGTTGC
11521	TTTAGGAGAA	GCCAACTCTT	AATCTGCTGG	TAAATTGACA	AGCCTTCGAA	CACTGAAGTG
11581	AAGGCCAGTA	AGGACTAGGC	GCTGGGTGGG	GGAGAATGAA	GAGGAGACGT	CATTAAACTT
11641	AGCACATACA	CTGTGTCTCC	TAGAGGACTC	TCCCTTCCTA	GACAAGTGA	GGCCGCTTTG
11701	TGGCCTGGGA	AATTCCACAT	TCCCTTAAGT	ATTTTACTCA	TGGTCTTTTC	CAGGTAAAGA
11761	TTTAAAGATG	AAGGGTTAGA	CGTAGTCTAC	CTATCTTTTT	ATTCAAGTCT	AGAACACGTT
11821	TTTAGCACCT	AGAAGTTTGC	TTTCTCCATT	AAAAACCGGG	AATATACAAT	AAATAAAATT
11881	AGTGTAAAG	CAGATTTTAA	CAAACTTAAA	TACCATGTAA	TTTAGGTTAC	AGTTACTTAA
11941	CATAAGGACT	GTGTGATCTT	AAATCTGCAA	TTTCTTTCAC	ACCTGGGAAA	TAAACTAAGG
12001	CCTGTCTTTG	GTGCCAGACA	AGGCCTTATA	CTTGAACACT	GCTGTGCAAT	CACAGGCTGC
12061	CTTGCCCTAGA	TAACCTATCT	GAGAAATTCT	GATGAGAAAT	GAAATTTCCA	GAGTCCCTCA
12121	CAAGTAAATT	TTTTTTTCTT	TTTTTTTTTT	TTTGAGACGA	AGTTTCTCTC	TTGTTTCCCA
12181	GGCTGGAGTG	CAATGGCGCG	ATCTTGGCTC	ACAGCAACCT	CCGCCTCCCG	GGTTCAAGCC
12241	ATTCTCCTGC	CTCAGCCTCC	GGAGTAGCTG	GGATTACAGG	CATGCGCCAC	GACACCCTGG
12301	CTAATTTTGT	ATTTTTAGTA	GAGACGAGGT	TTCTCCATGT	CGGTACAGGT	GGTCTCGAAC
12361	TCCGGACATC	AGGTGATCTG	CCCGCCTTGG	CCTCCCAAAG	TCCTGGATTA	CAGGCTTGAG
12421	CCACGCGGCC	GGGCCTAAAT	GGTTTTTTTT	TTTTCTATGC	CTCTAATGGA	CCTGGTCACT
12481	TATTCCTATT	CAGACTGACC	GCTCTCCTAC	CTGCCAACTA	ACTAATCAGT	GTAACCAAAA
12541	TCTGCAAACA	AAATTCAGTA	TTCTTTCCCC	GCCTTTTCCC	CTTTCTCTTA	CATAGATTAT
12601	GTTTTTGCCCT	GTGTTAGATG	AAATAATTCT	ATTGCTTGTT	CTCTCTCTGT	TACAAGTACC
12661	CAGTAAGCAA	ATTATTAAGT	TCTTGGTCAT	TTATTTCTGA	ATTTTCCACC	AAGACAGTGT
12721	TTATGTGAGT	CATACAATAA	GAACCAACAG	AAATGTGTGT	CTTGGAACAA	GGTTGTCTAT
12781	CCCTGGACCC	TTTGAGTTTT	CTGTTCACTT	TCCTTTGGCT	TTTGCATGCT	AAAAGTTTAT
12841	CGTCCGCGTT	TGTTTGTTTT	GGTTATTCTA	ATTGGACTTG	GCTGATTGGT	TGCATATTGG
12901	TGGCAGTAGT	AGAATTTGAA	TTCTGGTTTT	CTGGTCACAT	CATTAAGTGA	TTAGTCAGTG

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16201	ACTACACAGA	GATAGCCATA	GTGCTGCACA	GCCAACTTA	AGTGTTCTTA	GAGAACTCAT
16261	AATTGTTCT	AGAGAATCAC	TAATTTGTTT	CCTTTAAGAT	TCTTGGTTTA	TACAAGAAGA
16321	GAGTATCCAT	ACTAAACTCT	TTTCTACTGA	AAATTAATGT	CAACAATATC	ATCCTATTC
16381	TAGAGTAGTG	GTAGTTTCTT	TCTCCCTTAT	CTATTTTATA	AATCATCTTT	TTAAATATCT
16441	TTGTTGAGTG	AAATCAGTCC	ATTGCTTGAG	CACAAGTTAA	TAGTATGCCA	
16501	AAATTAAT	GTCTTTTCA	AGAGTTTGA	CAACAGTTGA	TACCTGAGC	CTATAGAGTG
16561	GTAAATATG	CCCTACTCAT	AAAGATGGGG	TGAAGATTA	ATGAATAGAG	ACCTATAGAA
16621	CAGTATGCT	AGACGTTGGT	TGATGCTAGT	AAATGGCTG	CACAGCACTG	CTCAATGATG
16681	ACAAAAGTG	AAGCTTCTGG	AGACAGACTC	CAAGTTTGAC	TCCAGATTA	CCACATATA
16741	GATGTGGGAC	TCTGAGGAC	TCTGAGGAC	GTCAATTTAT	CTCTCTATAC	
16801	CTTACAGTG	ATGTTAATAG	CACCTACCTT	CTAGAAATAT	GTGAAGATTA	AAGATCCTTA
16861	ATGCATATA	ACCAGTGTGT	TTACTGCTGT	TGACAAATTT	TTATTTATA	CCATCTTTAC
16921	GCTCTTAATA	GGACTTGAAG	CAGCTTATGA	CTGAAGACTT	TGTTAGAGAGT	TGGCTTTCTA
16981	TAATTTATTA	GAAATTTTCA	AAATTTTGA	TATGAATAATG	CAAGTTGATC	ATAGTATGTT
17041	TACCGGGGTC	CAACAGGTTG	AGAAAATAAT	CACCTTTTCT	CCCTGAACAT	ATGAATTTAG
17101	CTCTCTAGGC	ATATCTCTAA	GAATTTTGA	AATGATTAAT	ATCATTTCTC	TTAAATCTTC
17161	CAGATTTGGA	AGGATATATA	TATTCAGCAC	ATTGATTAAT	ATCATTTCTC	TTAAATCTTC
17221	AAAAAGACAT	AAAAATTTAG	GAAACTTTTC	CTACCTTTAG	CCTGTGTAAT	GTCTCTAAAT
17281	CAAGCATATA	ATTAATTTGA	GTAGAGTATA	CACTGTTAAC	ATTCTCTGAA	AGGTATCTTA
17341	GGCTCTGAGT	AAATTTCTTG	GGGTCTGAAG	ATCAGTTTGA	CATATCTCTA	AGTATCATGA
17401	GTTCATTTATA	ATTAAGAAAT	AGGAGATTA	TCTGGAGAAAT	GAGCCACCTT	CTTACTACTC
17461	CTTGACCTCA	GTTCCTTTT	TCAAGAGAC	GGTCTCACTT	TGTTGCCAG	GCTGCCAGGC
17521	TGGAGTGTAG	TGGCGCAATC	GCATCTCAT	GTAACTCCA	CCTCTGGGC	TGAAGCCATC
17581	CTCCTGCTC	AGCATCTCTG	GTATCTGAA	CCACAGCAGG	TGCACACAC	CATGCCAAGC
17641	TAATTTTATA	AAAAAGTTT	TGTAGAGATG	GGGTCTTACT	ATGTTGCCA	GGCTGGTCTC
17701	AAACTCTGCG	GCTTAAGTGA	TCCCTCTGCC	TCAAGCCTCC	AAATTTGTTG	GATTACTAGT
17761	GTAGTCTCAT	GTACCCCGCC	CCACTCTCAT	TCTGAGGAGG	AAAAATATG	TAATATTAAT
17821	GGGACTTTGG	TTTGCTGATT	TAAGATTTCA	TGTAACTTGA	TGATCCAAAT	CGCAATTTGT
17881	AGAAATATA	ATAGAGACAT	CTGCTCTCAT	GTTCCTACAG	TGCTCTAGTG	CTTGATAGTA
17941	GATCTCCTTG	CTGCTGGCTC	AGAAAGGTTA	AAGAGCAGAA	ATGATGGGC	TTCTCTGATT
18001	CTATGAGGAA	ATAGAACCTAT	GTAGAGGAGG	CTACCTGTGG	TAAACCTTA	TCCCTCATC
18061	TTAAATTTCT	AGGCTTATTC	TCTGACCTTA	TCAAGTTTTC	AAATGGTAA	AGAAATTTGAT
18121	TCAAGAGAAA	TATGAATATA	CCTTTGTTT	CACCTTTCTC	CCTCTCTCTC	CCCATTTCTC
18181	CCTTCCTTA	TTTTCTTCTC	CCTTACTTTC	TTTCACTTT	TTTGTCTACT	ATTATTTGCC
18241	CAAACTCAAC	TGTAGGCTAG	AAACAAAAAT	AATGAAAT	TAAATATGTC	CCCTTTGTT
18301	GTTAGACTTG	CCTTAAACAT	TGGGTATG	AACCTTGGAC	ACTAGATTTT	AAAAACACACA
18361	CATTGAGCT	TCAGTGCACT	GAAATATA	TATTTTAAAC	AAATTAATA	TAAATTTGCA
18421	TGTTAAATA	ATCTGCAGAG	AACAAATCAC	GTTGTGAGAT	CTTGAATGGA	AGAAACTG
18481	CTAGCCTCAA	GATGTGATCA	GCAGGCTCA	GAGTGAAGAC	AGGTGGAGG	ATGTTGGAGG
18541	GTTAGAGAG	TGTGCTCAGG	GTTCTAGGCT	CTAAATAATCA	GACAGTCCCC	ACGGCCCTGGC
18601	CTTCGCTCGT	GATCTCTTCT	TATGAAAAAC	ACTAAGTCTT	TTTCTCTACT	GGAATAATTT
18661	TTATCCTTCA	AGTTTAGATC	AAATGGAAT	TTAGAGACAT	GACTAGGTTA	CATTCATCTT
18721	TTAAGAGCGT	ACAGACATTC	AAAGGCTAGA	GGAATGGGT	TTACTGCACA	GGCTCATAT
18781	CCAACAGCTG	TGCTAACCTG	GAAACTTAAAC	CTCTCTGTGC	CCTAATTTCC	TCAATCTATA
18841	CGCAGGGAGA	ATGACAGTAG	GTATCTCAT	AGGTTGTTGG	AACAACCTAA	TGCAATTTGTA
18901	TCTATTTGT	AAAGTGTCTTA	AAACACTGCC	TGGCAGCAGAG	CAACATCTCA	GTGAACCTTTA
18961	GCCATCATCA	TTATCATTTGT	TCTCAGAGTC	AAATACATA	TCTCATATCT	GATAAATTA
19021	AGAAAGTGAAT	CAATCACTCT	CTCTCTTTTC	TCCAGGGGGA	GACAACAGCT	TTTAGACATA
19081	TCTTTTCCAA	CAGTCCGTAC	TGCTGGAAC	TGTTTGAAC	AATCAAAAGAA	GGACAAATGA
19141	TGAGTGTCC	TAGAAAGAGA	TAAATGGAGG	TATTTGAAC	AATCAAAAGAA	GGACAAATGA
19201	ACACCTGGCT	GAGAAATTT	AGCTCTTTT	TCTATGCA	AAACTATTA	AATATTTCTC
19261	ATAGAAATTT	ATGACACAGG	AAACATAAAG	ACATAATTA	AATAACTCT	AGTATCTCT
19321	ATTCTTTTA	TATGTATAT	ATATATCTC	ATATCATAT	ATACATATAT	CTCACATCAT
19381	GTATCATATA	TAAATATAAT	TGAGGTGTC	TGATATATAT	TTAGATAAT	ATACTTAGAA

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22681	AGATGCCTTT	ATTTTATTCA	CTCACACACA	TATGTAGAAA	GAGAAATATA	TGGTAAACAT
22741	TAAAAAAAC	AAATTAGAAT	GTAAAAATTAA	TACTTTAAAA	AATGGGCTGT	ATACTTTTCT
22801	TATCACCGGA	GATAAGAATT	TATTATTTTT	AAAAATAAAGT	TATTTTCTCT	GTGACTGTTT
22861	CCATGACTTT	GCTACTTAGA	AGTTAGAGAT	GCCAAAAGTTT	ATCTAAGAAA	ATGTTTATGG
22921	AAATATTATT	TCAATAATGA	ATGTTTAGAA	GACTGAATTT	CCTGACTGGG	CACAGTGGCT
22981	CATGCCTGTA	ATCCCAGCAC	TTTGAGAGGC	TGAAGAAGGA	GGATCGCTTG	AGTCCGGGAG
23041	TTCAAGAGCA	TCCTGGGCAA	CACAGCGAGA	CCCTGCAGCA	AAGTAAAAAG	AAAAAAGAAT
23101	TGAAAAAGGA	AGACTGAATT	TCCTTTGGGC	AAGTCATGTG	ACATTCCCTGT	GCCTCAGTTT
23161	CTTCATCTAT	AAAGTTAATT	CCTACATTTT	TGGGGAAGGG	AGAGAAAAAC	TTAGGATAGT
23221	GACTGGCACA	GAAGAAGCAC	TATATACTAT	ATATATGTGG	ATATCATTTG	TTTTTATGGT
23281	ACCATTTTAG	CTATCTAATG	CAAAATATGA	ATCTTTTTTT	TCTGGGTCTT	AAATTATGGA
23341	ATGTAAGAAT	TTTCTAAATT	CTCTAATTCT	GTGTTAGTTT	TAAAGCAATG	GAGTAACGTA
23401	TCTGTCAAGT	TGTAATATA	AGGATCAACC	TGATCCACAA	TTTGACCCCT	AGCCACTAAT
23461	ATTTAATAGT	ACAACACTCA	GAAATTATCA	AAGGTCAGAG	AAGCCAAACA	AATGTAAAAA
23521	CATACAGGTG	CTCAGAAAGA	TGCACCTGTA	ATCTCTCTAA	GGAGAAATAT	TTTCCAAACT
23581	GAGTGACACG	GTGCTTTAGT	GAGTTGTGGA	ATCAATCTCA	TGATTTCCAA	CCTAGTGTTC
23641	TTTTAAAAAT	GAAGTAGTCC	ACAGTAGAAT	ATACTAAAGT	GCTGGTGCTT	AAGATAGTAT
23701	TGTTTTCTGG	AAAAAAAAAA	AAAATTTTTT	TTTTTTGAGA	CAGGGTCTCG	CTCTTGCCCA
23761	GGCTGAAGTG	CAGTGGCACA	ATCATGCTCA	CTGCAGCCTT	GACCTCCTGG	GCCCAAGTGA
23821	TTCTCCCACC	TCAGCCTTTT	GAGTAACTGG	GACCACAGGT	ACGTGCCACC	ACACCCGGGT
23881	AATTTTTTAA	TTGTAGAGAC	AGGGTCTTGC	TATGTGCTTA	GGCTGGCCTT	GTGAACCTCT
23941	GGGCTCTAGT	GATCCACTAG	CCTCAGCCTC	CCAAATTTAT	GGGATTATAG	GCATGAGCCA
24001	CCCTACCTGG	CCTGTTCCCT	GAATTTTTTT	TGTTTTTCAGG	TGTTTGTGCA	TATGTGTGTG
24061	TGTATGGGTA	TAACAGAGAG	ACAGAGAGAA	AGAAACTTTT	CTATCACACT	TTGCAATCAG
24121	AAGTTTGAAG	TCTTATCTTT	TGGCTTTTGT	TTTCAAAATA	TTTCAAATGT	AGACTCTCTC
24181	CTTTACCACA	CTGTCCCTTT	AGGCAAGGTC	TTTGCCATTC	TTCTGAGACT	ATTGCAACAG
24241	ACTCCCAACT	TCTGACTGTG	GGCCCTTCTC	AAAAATGATT	GTTTATGCAA	TAAATCTAAA
24301	CCCAAGACAA	CTACAACAAT	ACAACAAATT	CTCTGCTTAA	AAACTTCCAA	TGTCTGCCGG
24361	GCGCGGCGGC	TCACGCATGT	ATTCCCAGCA	CTTTGGAGGC	AGAGGCGGGC	AGATCACTTG
24421	AGGTGGGGAG	TTCGAGACTA	GCCTGGCCAA	CATGATGAAA	CCCCATCTCT	ACTAAAAATA
24481	CAAAAAATTA	GCCAGGCATG	GTGGTGGGCG	CCTATAATCC	CAGCTAATTG	GGAGGCTGAG
24541	GCAGGAGAAT	TGCCTGAACC	TGGGAGGTGG	AGGTTCGACT	GAGCCAAGAT	CACACCATTG
24601	CACTCCAGCC	TGGGCAACAA	GAGCAAAACT	CTGTCTCAAA	CCAAACCAAA	ACAAACCTTC
24661	TAATATCTAC	CAAATGTTTC	ACACAGATAT	TTGGGGATCT	TCACAAATGG	CCCTTATGGA
24721	GTTTTCTTTT	GCTGAGACCC	TATGCTCTGG	CCACACTAAA	CTCATTCAGC	ATCCCAGAAA
24781	GGCCTCAGCC	TTTGTGAGCA	AGCTCTTATC	TCCAGGCCTC	TCACAAAGAC	CTGTTCCAGT
24841	AGAAGCTCAG	GGGAGCACAC	TGGACATTAT	TCCAACAACC	CTTTCCCCAC	AGCTATGCAG
24901	CCAAATCTGC	CAGCTCAGTT	AATTAATTAA	GCAATTCAGA	GATGAGGGTC	TGCCCAGGCT
24961	GGAGTGCAGT	AGCTGCGACC	TCAAGCTCCT	GGGCTCTAAG	TGATCCTCTT	CAGTCTACCC
25021	AGAAGCTGGG	ACTGCAGGCA	TGTGCCACCA	CACCCAGCTA	ATTTTTTTTT	TTTTCAGTAG
25081	GGACCAGGCC	AACCTAGTCT	TGAACCTCTG	GCCTCCAGCC	TTCCGAAGTG	CTGTAATTAC
25141	AGGCATGAAT	CACTGCGCCC	AGCCAACCCG	CCCAGTCTTG	TTAGACATGG	GGTCTGTAGT
25201	TTCTAGTAGG	TTCTTGAGTC	TAGGGTTTCT	ACCTCATGTT	TTATAGTTAA	TTAGGGGAG
25261	GGACTGTGTC	TGTTTATCTG	GGGATGTAGG	GGTGGGCAGG	GGGATAGAGG	GGACTTCAAT
25321	TAATGAAACC	AGAAGCAAAA	CTCAGTTGAG	GACACCGGTC	ATGAGAGTGG	CCTGATTATG
25381	GCCAATCTTA	CATAATGTGT	GAGATCTTGA	TATTACCCCA	TCCTTGAGAG	TCCTCTATAA
25441	AGCTACAGGG	ACTTGGGAGC	ACCTTTAATT	ACAGACAACC	CATGTTCTCT	TGGATTATGA
25501	TTTATTAGAT	TGCACATGCC	TAAATAAAGA	CATCCTCTGC	AGTCTTTTGA	CAATTCTATA
25561	AGCATCTTCT	GACTCCGCAA	TTAGACAGCT	AAGAGATCTG	TGTTACTTCC	CTCACATATA
25621	TAAATAATTT	TAAATAAAAA	TCATGGCGTG	AATAATTTCT	TTCTCTACCC	GATTTGAAGC
25681	TATCCATTTG	GAAGACCACT	CTGAAGAGAT	GAAATAAGTC	TTCTGCCAAA	GATTACTTAT
25741	TAAATTTACAA	GGAAAAGGGG	AAGTTTTGTT	CCTCTCCGTG	AATTTGATTG	AAAATCGAGG
25801	GCTTTCTCGA	ATAGTTTTTG	CATCCAGGGT	CATTTTTCAT	TAAAAAGAGA	AAAGTCATGT
25861	CAAATATGAA	TTTCCGCAAG	TTATTTCAGCA	CTAGACCCTG	GGAGATTCTG	TAAAGAGGGG

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29161	TGCTGGGAAT	ACAGGCGTGA	GCCACCGCGC	CCGCACTTAG	ACCACTTGT	TTTGGCCAAT
29221	AGGACACAG	CCATAGAAC	CTCCGCAAA	GAGAAGCTTG	CCCTAAAGAT	GCTTTATTA
29281	CATAGCTGTG	TGCGGCATGA	GCCAAAGGT	GATAACCTTT	GTTCAACACG	CGCCTCCAGC
29341	CTTCGGGTA	AGTCCAAAGT	AGATGCTCTA	GAATGCTCTA	AAATACATAA	TTTTTTTTTT
29401	TTTTTTTTTT	TTTTTGAGGA	GTCTCTCTCT	GTCTCCCAAG	CTGGAAGGGA	GTGGCGCGAT
29461	CTCGGCTCAC	TGCAATCTCT	GCTTCCGGGC	TAGCTGGGCG	TACAGGTTGA	GACCACACAG
29521	CCCGGCTAAG	TTTTGTAAT	TTTTGGTAG	AGGGGTTTC	ACCAATTTGG	CCAAGGCTGG
29581	CTGGGATCT	TGATCTCAAG	TGATCTCAAG	TGATCTCAAG	CCCAAGTGC	TGGGATTAAC
29641	GTGGTAGCC	ACTGCGGCCA	GCAAAATGCT	TTTTGGGCT	CCCAAGTGC	TGGGATTAAC
29701	TACCTCTCTA	TGCTTACTTT	ATGCTTCAAG	ATTTTGTCA	AGTGGGGCGG	GTGATGGCAA
29761	ACACAATTCA	TTCTTATGCA	GGCTGTCAAG	GTATTTCTG	TCAATCCAAAC	TCAATCTCGC
29821	AACGCAATTC	AGCTCTTAA	ACGACTTGT	GAGCGGGCGT	GAAAGAGGCG	TTTGGGTTTT
29881	TTTGTTTTTC	TTTTTGAAG	TTCTCAAGAG	ACCGCGTAT	CTTAGATTCA	GCGCGGGAAG
29941	CCATACAGAG	TGCGGCCCTG	ACGTTTCAGG	GCATATACAT	CATCATGTC	TGTGACAGTT
30001	TGCGGCTTGG	CGTGTCTCGT	ATAGGTGACG	GGCTCTCGAA	TACGTTCTC	TAAGAAAACC
30061	TTAAGCACAC	CTCGAGTCTC	CTCATAGATA	AGACCGGGA	TGCGCTTGAC	GCCACCGGCG
30121	CGAGCCAAAC	GGCGGATAGC	CGTTTTGA	ATGCCCTGGA	TGTTATCCCG	GAGCACCTTA
30181	CGATGGCGCT	TAGCACCAAC	CTTCCCAAG	CCTTTCCGG	CTTTGCGCG	ACCAGACATG
30241	ATTCCTATCG	CAGTGAAGG	TATGAACCTGA	AAACAGTTCCT	TAAATACAA	CTTGGCGGAC
30301	CTGATTGAAA	ACAACATGAG	TGGCGCGGCT	TTTTTTTTTT	TTTCAAATTT	GGTCAACGAG
30361	TGGGTGGAGC	AAGAAAACCT	GTTCATTAAT	GGTTCATTTG	TTTGAATTTG	CAGTGAACAG
30421	TTGCTCTTTG	TGGGAGTTGA	AGGGTGTTC	CAAGTTGAAT	GGCGTGTAT	CCTGTCACT
30481	TAATGACGCT	AAGCATAGCC	CCATTCACCA	TTCTTTTAA	TTTCCACTTG	CTAACATAA
30541	AATTAAGGAA	TAGTTTATTTG	GGGAACATAC	AAATAATGTT	TAAAGGAGGT	CAGATTTATA
30601	GGTCAAGGGA	TTTACCCCTC	CAATCATTTT	AATATTTTAA	TTTAAACCA	GCAATTTGAT
30661	GGCTTCTCT	GTGCTGGACA	AGGTATTAAGT	TTGGCTATGA	AGTTTCACTC	CTAAAGACCC
30721	TATGTTTGG	GAAAGGCAAA	AGTTAGCCAA	ATTAATTCGA	ATTAACCT	CATAAGTGCA
30781	AACTTCTTC	TGCTCACTTT	CCCTATCTCG	ATTCAAATAT	TTGTTGAATG	ACTCATTTT
30841	CTGCAAAAGT	CTGAGAGAGA	CAGGGAATAT	AAACTTAAAT	CTGGATAATA	TGTTTTCCCG
30901	GGAAGCTCTT	CCTGGTCTG	TGCTGCTGTT	TGCTGTGCT	GAAATTCGA	ACACTCTTC
30961	CTTCCCTCCG	TTTTTAATCC	CGTTTCAAGT	TGCTTCAAGCT	TTAGAGAAAA	GAAACATAGT
31021	TTTGTACAGT	TGGGATTA	TTGAAGTGA	GGGCTTAATAC	TATGTTAAGG	TCAATACAA
31081	ATCTACAGGG	TCTTCTCTG	GGAGGTTTTT	GTGATTAAGAT	TATGTTGTTG	AAAAATAAGG
31141	TAATCCCTCT	GAAATAATGA	GAATGGGTG	TGAATGTGCT	TGAAGAGAG	GAATGCCCAT
31201	GGAATCTCTCA	ATTCAAAAT	TTATCTTGA	CTTCCCTGTTG	GAGCTTTTCA	GAATGCCCAT
31261	AAGATCCCACT	TTTGTTTAA	AAACAAAC	AAACCCCAAC	ACCCTCTCT	GGTTAATAA
31321	TGAATTTCTA	TTGGGAATAT	TTAGAAATGG	GCTGTGCGCT	GTAGAGAGACA	TTATATAGTA
31381	ACCTCAAGCT	TGCTCACATG	AAGAGAAAGAA	ATCCAGGAAT	GAGAAAAAAA	GACCCAGGAA
31441	AGGCCAGAAAT	GCTCTACATG	TGTAATGTT	CTGAATTAAT	TGATTAAGAT	TTTATTAAGT
31501	CTTCTGCCCC	AAATGAGTT	CTCACTCACT	GTCCACATGC	CACAACACAG	GAAGAGAGAT
31561	ACCTTATAAC	TAGAGACTTA	GCTAGGAAAG	AATGTCAAC	CTTTAATTC	ATGAAAAATA
31621	AGTCTGAGAT	CATAAGTAA	ACTGTGAAT	CTCAACATGC	CTTTAATTC	ATGAAAAATA
31681	AAAAATAGC	AGCATATGCA	ATATGATAAT	TCTGTGAATA	CATACATCAT	GTAGCTTAC
31741	CTGGAACACA	TCTCGCCCAAG	TGCCATCTTC	ATTTTAAACA	GAGGTCTAGG	ATGCCCTTAC
31801	TTTATTTTGC	CTATTTATATC	ATTATTAATA	CCCCATTTT	ATTTTGAAT	TTTATTTACT
31861	TTCTATTTCC	TGCTCCCTAAT	ATCTCCCTTC	TAACTTTTTC	TCAATGACAG	TGACTCAAAA
31921	ACAATGAATG	TCAGAACAAA	TATTTAAAGG	ATCTGTACAT	GTAGATATAT	ATATTTAAAA
31981	TGGAATCTTC	CACCTCTGGGA	AGAATTCAGG	CATACTCAAT	CTTATGGTTA	GGGAGAGATT
32041	AGGCTCACTC	GCCTAATCTG	TATGGCTTCT	CGTTCGCTTT	CCATTTCAAC	TTCCCTCTAC
32101	CCATCAGATC	AAACTCATTC	AGACCTTAAG	CCTTCAGAT	AAAACTCTGC	AAAACTCTGC
32161	AAACAAGTTG	TGTTTGAAGAG	GATTAATGAA	AGACCTTAAG	CCTTCAGAT	AAAACTCTGC
32221	TCAGAGGTTA	ATCTATGATA	TGAGAGAAATC	GTAAATGACG	TGGCTCAAGG	CTGTAAATCCC
32281	AGCACTTCAG	GAGGCTGAGT	TGGAGAAATC	GCTTGAGCTC	AGGAGTTCAA	GACCAATTTG
32341	GGCAACATAG	CAAGTCTTCA	TCTTACTTA	AAAAAAATA	ACCAAGAGTG	TTATGAAAAAT

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35641	AAGATTCTTT	GGAAGAATTA	AATTAAGATT	CAGAACACAG	CCTAATATCT	AGTAAGTAAT
35701	AATAATTGGC	TAAAAAAATT	TTCTTAAGAT	TATATATATT	CATGGGGTAC	AAGTACAATT
35761	TTGCTACATT	AATATATTGC	ATTGTGGTGA	AATCAGGGCC	TTCAATCCAT	CCCGGAAAAA
35821	AAAAGTTTTT	GAAAAGATTT	CTGCCATGGA	AAACTTTTAA	TGTACAAATT	CATCCATCCA
35881	AGAAATAGAA	AATATATAAG	TATCAACTCC	AAATCCACCA	TATCTATCTC	TTCTGCACCT
35941	TAAACAATTA	CTCAGAAATA	GAATGCTTGA	GATACCAGAA	TGCATGCATA	TCAAGTAATA
36001	AATGCATGCA	GGATGTCAAC	GCATCCTAGG	CTTTCAAATA	AAATTGTCAT	ACAAAATACT
36061	TTAATATTGT	AGTAACATTC	TACATGTTAG	AGTGTAGAAG	TTAATCGCTG	ATGCAAAAAA
36121	GGAAAAGAAC	ACATTATACC	CAAAGCCTAC	AGAGAGAATC	ACAATTACAA	ATATCAGCCT
36181	GCATGTGAAA	ATCTTTAATT	TGAAAGTCAG	AAATATTTAA	ATGATAGTCA	TTGTTAAATC
36241	AGATTGTGGT	TTGAAAAAAA	GTTAGTTTAA	AACTGAGTTT	ATGAAAAATT	TGGGGATTTT
36301	AGAGACAGTG	TTTTGTTTTT	AAATGTGTGT	GAGTTTGTGA	AGAATGTTTT	ATAAAATACT
36361	GACAGTATTA	TAAGATGACA	TTATTATAAT	ACAACATAAG	AATTTTGGCG	TGTACCTCTC
36421	AGCAGTCCTC	AATCACCTGC	TGTACTTGAC	TCAATGATTA	TCAGAGTGGT	TTGTTTTCTT
36481	TCTGTTGTGT	TCCCAGTTCA	GGCAGCTCAG	CAATGGCCTG	TGATTCCAGC	AATTCAAATA
36541	GCTGGTAAGT	AGTTTCTTGT	TTGTTTTCTC	AAATTTTCAG	GGGCTTTTCT	CTACAAGTGA
36601	TTTCCAGTGC	ACGCCCCCTC	ACCCATTCTT	TATTCCTTTA	CCTTCAGGAA	AACCCTCAGC
36661	GCTGCATCTC	TGGTCACCGG	ACCACCGTGG	TACATTTACC	TATGGCCACC	AGGTGTCACC
36721	CTTCTCTTTA	CTACCATGGT	TTGTGAATGG	TTTTGCCAGA	GGTGAATAAG	AATTTAAAT
36781	GCAGGTCTTT	GATTTTTTCAA	ATGTAGTTGA	CCTTAAGAAT	TTATGAATAA	AGCCAGAAAA
36841	ATTAAGCTTA	AAAAACACCG	AAAGAAAATG	AGGACTTAAA	ATTTCTATTA	AAAAAATTAA
36901	CAGGCCACAG	TTGCTGATGT	TTAGTAAATG	TGTTAGTGAA	ATGTGTTACT	GTGAAGACTG
36961	GGGTGTTTCT	TGAAATCTCA	GCCCAGGTGA	AATAAAACCA	ATATAAAACA	AATGCTTACC
37021	TAATAAATTA	ATTGTAACAT	ATTCCTTATG	AGGTAGAAGA	GTAAGTGAAG	CCTTATAGCA
37081	GTCTGCTTTC	AGTATAGTAA	GATATTAAGA	GAGAAATAAT	TTGTCAATAG	CTTTCAGAAT
37141	GGTTTGCTGG	TAAAATAACC	AATGTCTTAC	AACTTAGACG	ACAATGTCCC	TAGAGTGAAG
37201	AAACACGATT	AATTCGGCTA	CCACAGTTGA	ATGAAAATAT	TCCGTAAGAC	AAAATGTAAA
37261	GAAATTAGAA	GCAAAATAAA	TGTCTCCAAA	ATGACAAAGC	GATTAAGTAT	ATACACAAGA
37321	TGAACAAGAA	CTTCAATAAA	ATCATGCAGT	ATACAATACA	ATGTACATTT	ATTAAAGTAT
37381	ATGCATTTTT	AATGCAACAA	TAATACTAAC	AGGTAATAGA	CAAGTTGTTA	ATAGTTTTTC
37441	ACTGGCTAAT	TAAATAACAG	CTTTAATTGT	ATTCATTTTA	TAGCTTTTCT	ACAATGAGCG
37501	TAAATCACAT	TTACTTTTTT	CTACATAACT	TTTCTAACCA	CAAAAAAAGA	AAATGGTTTA
37561	AAAGAAGAGA	TGAGATATCT	TTGCTAAAAAT	TTAATGCCTA	AAGAAGAAAC	TTCTGAGCTG
37621	TATATGGTAT	CCTGAAGCAC	CTGCCCTTCA	AGACAGAAATG	CTTGTACCAC	ATTTATGCAG
37681	CCAAGTGCAT	GTAGTAACAT	AAAGTAAACA	CATGCCATCT	GGATATATAT	ATTAAGACTC
37741	TTTGTACGGC	TGGGCAGGGT	GGCTCAACCC	TGTAATCTCA	GCACTTTGGG	AGGCCGAGGC
37801	AGGCGGATCA	CGAGGTCAGG	AGAGTTTCGAG	AGTACGCTGG	CCAACATGGT	GAAACCTTGT
37861	CTCTACTAAA	AATACAAAAA	TTAGCCGGGC	ATGGTGGTGC	ACGCCTGTAA	TCCCAGCTAC
37921	TTGGGAGGCT	GAGACAGGAG	AATCGCTTGA	ACCTGGGAGG	CAGAGGTTAC	AGTGAGCCGA
37981	GATCATGCCA	TTGCACTCCA	GCCTGGGCAA	TAGAGTCTCA	AAAAAATAAA	AAAGACTCTT
38041	TTGAACATGG	TGAACTGATT	TCCCAGAATC	TAGCAATTCC	TGAATGTCCT	GGTTAGATTT
38101	TTTTTTTAAT	GTGCACCGGA	ACCCCAGTGG	CTCCATGGAA	GGACCTGGGC	ATCCTCTAAG
38161	CCACTTGGTG	GCTTCCATTA	TACCATCTCA	AAATGAGAGA	GCTTACTCCA	CTTCATTGAG
38221	GGAAATACCA	CCAGAGTTCT	GACTCCAGAG	GCACTGGCCT	AGGGAGGACA	CCGTGTGTGA
38281	AGCCCAGCAG	GGCCACTAGC	TGTCCCCACC	AATTACAGTC	CTTGCGTAGG	GTCCAAAGAA
38341	ATGAATGCCA	AAGAGAGCAA	CAGAGGAGCA	AGGGAGTCAC	ATTCCAGGAC	CTTCCTTCAG
38401	GGACTTTTAA	AGGAAACATG	ACAGCTGAGG	ATCAGTTGGT	TGTTTTCTGT	TGTTCCCTTT
38461	CATGTGATTC	AAGCTCATTC	AGAAGAAACA	CAATGAGACA	AGAGAAGAGC	CATCTCCTTC
38521	CTTCTCTATT	TATTCTAGGC	ATCTAAACTA	CTGAATGTAG	TGGTGTCTGA	GATGTATCAA
38581	ACGGTCAGAT	TGACTGAGTT	TGAAACCTGT	TTCTATCACT	GACAACTAT	GAGATACTCT
38641	ATACTTCACT	TTCTTTTTTT	TTTCATTTTT	TTATTTTTAT	TTTTATTTTT	TTGAGATGGA
38701	GTCTCACTCT	GTCACCTAGG	CTGGAGTGCA	GTGGCGCAAA	CTCGGCTCAC	TGCAAGCTCT
38761	GCCTCCTGGG	TTCATGCCAT	TCTCCTGCCT	CAGCCTTCCG	AGTAGCTGGG	ACTACAGGCG
38821	TCTGCCACCA	CGCCCAGCTA	ATTTTTTGTA	TTTTTATTAG	AGATGGGGTT	TCACCATGTT

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42121	GGGACTACAG	GTGCGCATGA	CTGTGACCAG	CTAATTTTGG	TATTTTTHA	GAGACGGGTT
42181	TCACCATGTT	GGTCAAGGCTG	GTCTCAAACT	CCTGACCTTG	TGACCAACCG	CCTGGGCTG
42241	CCAAAGTGCT	GGGATTACAG	GGGTGAGCCA	CCGTGCCCCG	CCTTGACAAT	TCTGAATTTT
42301	TAACAGGTAT	AAATATACAA	AAGATTATGG	GTTAAATAAA	AAGCAAGGGC	CATAGACACT
42361	TCCCTTTGAG	CCATATGCAAT	GGAAGAGTAG	AGACTCTAGG	ATTGAGAAAG	GAATTTGGAG
42481	AGGCACACAG	CCTCAGCCAC	CTCTGAAACT	CTCTGAAACT	ATTGAGAAAG	GAATTTGGAG
42541	GTGCACTCTG	CCACTAGAGT	ATAGAGGGAG	AGTGTGTTT	CCAGCATACC	CTGCAACCTC
42601	AAACACACCT	TCCCAAGCTC	CAGCAACTGC	AGCAATCTG	ACTCCAGCTT	GGTGGGCTG
42661	TAGGCCCTGT	TCTGCTGGCT	CCGAATCTG	TGCTTCTG	AGCAATCTG	GGTGGGCTG
42721	GGCCCTGGGT	CTGCTGGCT	CCGAATCTG	AGCAATCTG	AGCAATCTG	GGTGGGCTG
42781	CCATCATACC	CGTACTTCCA	GTAGCTTCCA	GTAGCTTCCA	GTAGCTTCCA	GTAGCTTCCA
42841	AGGATGACCT	GAGGGGTTGG	GGAATCTTGA	AAATCTTCCA	AAATCTTCCA	AAATCTTCCA
42901	AGGAATAGGT	CCCTATTTCC	AGCAATCTT	AGCAATCTT	AGCAATCTT	AGCAATCTT
42961	TTCCTCTTTC	CCTGCTTCCA	AGCAATCTT	AGCAATCTT	AGCAATCTT	AGCAATCTT
43021	AAAAGATGAA	AAGCTCTTGA	AGCAATCTT	AGCAATCTT	AGCAATCTT	AGCAATCTT
43081	TGTGGTTGTT	ATTTCATATA	ATAGTCCAGA	AGTCAACAGT	GAACATGTGA	TCCCAACCTT
43141	TCAGACTCTG	ACTCAGCTGC	AGCCACATCT	GGCTTGAAAT	TCTACTGGAA	ACCATAGGAG
43201	TTCGGGGGCT	CACACGGCGA	CTCTCATGAT	CATAGAACAC	GGTCCCTGCT	ATGAGAGAGT
43261	AGCCCAAGG	TTCAACAAGG	AGCAATCTT	AGCAATCTT	AGCAATCTT	AGCAATCTT
43321	AGTGCAGAGA	GTGTGAACCT	GGAAGACAGG	CAACAGAGCT	TAACCATGTG	TGTGTCTGGT
43381	GGAAGCAGAT	GTGAGGGCTC	CACACAGCTG	CATCAACTCA	TACCATGAGC	TGTGTCTGGT
43441	CCTCATTTTG	TGAAGGGTGA	GTGCGAGTCC	TGTCTTCTCT	CCATATGACA	GTGCGAGTCC
43501	CTCTTTCTCT	GTGTGCTTTT	CTCTGCGACA	CGTGGCTGCT	AGCCCTCTCA	TGCCCCCAGA
43561	TCCTATTTCA	ATACTCATGA	TTAGACAGAC	TCCACTMAAG	CTGGTGGATT	CTAGAAAATG
43621	TTAAGGTGTG	TCTAGCCATG	GTAGTTGAAC	TCAGGAGTTG	GTGCTCAGGG	CAAAATTAGAC
43681	CCAATCTCTG	AGGAATTAAT	CCTTCAGTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT
43741	GAGACAGAGT	CTCACTCTAT	CACCCAGGCT	GGAAGTCAAGT	GGCACAATCT	CAGCTCACTG
43801	CAACCTGAC	CTCCTGGGTT	CAAGGGATTC	TCTTACTTAA	GGCTCTGAAA	AACTGTGGAG
43861	TATAGGGGCTG	CGCCACCCAC	CAAGGGATTC	TTTTGTAAT	TTAGTAGACA	TGGGGTTTCA
43921	CCATGTGGCT	CAGGCTTGTG	TCAACTCTCT	GACCTCAAT	GATCTTACTG	CCTCAGCCAC
43981	CAAGTGTCTG	GGATTACAGA	AGTGAAGCCAC	CGTGGCCAGC	CTTGGTCTCT	AAATCTTACA
44041	CTGAACCTGC	TATGTGGCCT	CACCACTTGG	AAGCTGTGAT	GGAACTCTCA	ACTTAACTAG
44101	TCCAAATGCA	GATCTTGTAT	TTAGCCCAAA	CTGCTCTTTC	CTCTGCTCTC	ACCATCTCAG
44161	AAATGGCAAT	GCCAATTACC	CCACTGTCTA	GGCCAAATAA	ATTAAATAAA	AGAAACAAGT
44221	CAACTTTAAC	TCTTCTCTTT	TTCAAGGGAG	AGGGTCTTGC	TCTGTCAACT	TCTGTCAACT
44281	AGGCTGAAGT	ACAGTGGGAC	AGTCAATGGCT	CACTGCAAGC	TCAAACTTCT	GGGCTCAAGC
44341	AATACCTCTC	ACCTCAGCCT	CCCGAGTAGG	TAGGATCACA	GGTGCATGCG	ACCAACCCCA
44401	GCTAAATTTT	GTATTTTGTG	TAGAGAAAGG	GTGTTGCTGT	GTGCGCCAGG	CTGGTCTTGA
44461	ACTCCTGAGC	TCAGGAAATCT	GCTCTCTCTG	GGCTCTCTCT	TGGCATGAGC	TACTTACACCC
44521	AGCCAAATCT	TCTCTTTCTC	TCACCAAAAC	TAGAATCTCT	CAGCAACTTC	CTTCAAGATA
44581	TATTCAGGAG	ACAAATGGTT	GTCGTTCTCC	CACCCAGGCC	ACTCCCACTA	ACTCCCACTA
44641	CTCTTGGCTG	GACTGTGTAA	CAGCTTCTCT	GCTGGGCTCC	CTGCTTTTAC	TGTTGCTCCC
44701	TCTATCTGCT	TTTCCACATA	GCAGCCAGAG	CAATCTTTTA	AAAGCTCTGT	ACAGATCTAT
44761	GTAACTCTCT	GGCTAGAAAT	CACACCAACAG	CCTACAGGCG	CCTGACACAA	CTGTTTGTG
44821	GCTCCTCTTC	TGAGCCCAT	ACCTACTTCT	TGGCTCTTAC	TCCCCAGCAC	TACTTGTTHA
44881	TTTTTTTCAA	CCCGAGCTTC	TTAACCAAGG	GTGTTCTTAC	TAGGTGACAT	GTGGCAAAAGT
44941	TTAGAGACAT	TTTTGGTTGT	CAAGACTGGG	GAGTGTCTCC	TAGCACCTAG	TGAGTAAAGGA
45001	GGACAGGATA	CTGCTAGACA	TCCTACATGC	AGATGGTAGT	CCCCCTTCCC	ACCCCAACGC
45061	CGCCCCCCCC	CCGACACACA	CACACATGAG	TAGTGTCTAG	AAAACCCCCT	TTTTAATCCA
45121	ACTTGGCCAGG	CCCACTCAGT	TGGCTTGGGA	AATACTGCTC	CCAGTCAATA	TCAATCTTAT
45181	TTCCCTTCATG	TCTCTGCTCA	AGTGTGAGCC	CCAGAGTGA	TGCCCCCTGAC	TCTCTGCTTT
45241	CTCACACAC	CCATGATTTT	CTGATGTTGT	ATACTTTTCT	GCTCATTTTG	TATTTGTCAAT
45301	CTCTCCCACT	AGAAATGCAA	ATATCAAAAG	GTAAAGACTT	GTTCCTTCCG	TCTCTGCTTT

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48601	CGGAGGTTGC	AGTGAGCTAA	GATCGTGCCA	TCGCACTCCA	GCATGGGAGA	CAAGAGCAAG
48661	ACTTCATCTC	AAAAAAAAAA	AATTAGCTGG	GTGTGGTGGC	ATGCACCTGT	AATTCCAGCT
48721	ACTCGGGAAG	CTGAGACAGG	AGAATCGCTT	GAACCTGGGA	GGCGGAGGTT	GTGGTGAGCC
48781	GAGATCATGC	CATTGCACTC	CAGCCTGGGC	AACAAGAGCG	AAACTCCGTC	TCAAAAATAA
48841	AATAAATAAA	ATAAAATGCA	AAAATTAATG	GATTTTAGTA	TATTTACAGA	GATGTGCAAC
48901	CATTACCAAA	ATTTTACATT	TCTATCTCCC	CAAAAAGAAA	CCATGTTCCC	CTAATTCAGT
48961	ACCCTTAATT	CATCGCCTCC	CAGATTCCTC	CATTCTCCTC	CTCCTCCCCT	CCCAGCCCTA
49021	GACAATCTTT	AATCTACTTT	CTTCTATTTT	GGAACATTTA	GTATACATAG	AGGCATATAA
49081	TATATTGCTT	TGCCGTGACT	GGCTTCTTTC	ATTTAGCATA	ATGTTTTTAT	GTATGTTTTT
49141	CATGGACCAA	TAATATCTAT	TATAAGGACA	TACCACAACA	TATTTTATTT	ATTCATTCAT
49201	CAGCCGATGG	ACATTGGTTT	GTTTCTACTT	TATGGCTATT	GGGAATAGTG	CTGTTATAAA
49261	CATTTATGTA	CAAGTTTTTT	TGTAGACTTA	TGTTTTGATT	TCTTTTGGTT	ATATATCTAG
49321	AAGTGGGTTT	GCTGGGTCAT	ATGGTAACAC	TGTTTAACTT	TTTGAGGAAT	TGCCACATTC
49381	TTTTCCAAAG	TAAGCATTTT	ATCCTCCTAT	CAGCAGTGTA	TGAGAGTTCT	GATTTCTCTC
49441	CATCTTTGCC	TGGGTTTTTG	AATCAGGGCC	CCAGATAGAA	CAAAAATGTG	GTTATTCAGT
49501	TGTTCCACCA	TCACTTGTTG	AGAAGACTCT	TTTTTCATTG	AAGTGTTTTG	GCACCCTTAT
49561	CAAAAATCAA	TCTACCATAA	ATGTGAGAGT	TTATTTCTGG	AGTCTCAATT	TTATCCCAT
49621	ATGCTATAAT	CTATAATCCT	ATCTTTTTTT	TTTTTTGACA	GAGCCTCACT	CTATTGCCCA
49681	GGTTGGAGTG	CAGTGGCCCA	ATCCCGGCCA	CTGGCTCCTC	CTCCAGGTT	CAAGCAATTC
49741	TCCTGCCTCA	GCCTCCCAAG	CAGCTGGGAT	TACAGGTACC	TGCCACCATG	CCTGGTTAAT
49801	TTTTGTATTT	TTAGTAGAGA	CGGGGTTTCA	CCATGTTGGT	CAGGCTGGTC	TGGAACCTCT
49861	GACCTCAGGT	GATCTGCCCC	CCTCAGCCTC	CCAAAGTGCT	GGGATTACAG	GCATGAGCCA
49921	CCACACCCAG	ACTATAATCC	TATCTTTATG	TCAGGACTAC	ACTGTCTTGA	TTACTATAGC
49981	TTTTTAGTAA	ATTGAATTCA	AGAAGTTTCT	CAACTTCAAA	TTTGATCTTT	TTTTGGAAGA
50041	CTATATTAGC	TATTCTCAGT	CTGCTGAATT	TCCCTAGGAA	TTTTAGGATC	TATTATCAAT
50101	GTCTATTCTA	TTTTTGTATA	TGTTTTAATA	TTTTCATAAG	AAACTTTTTT	CATTTAAACT
50161	TTTTTTTTTT	AGAAAAATAG	TGAAAATCAG	AATACTGGGG	GTCAGGCGCA	TTTAACAGGC
50221	AGAAGAAGAA	TAAAAACTTG	TCATATAAAC	AAAAAAGAAA	TGACCAATCA	CATTGTGGAA
50281	GCCATGGAGT	GGTTATAGGT	GCCAAAGGCT	GCAGAGAAAT	GGTGTGAGAT	ATACCTGAAA
50341	ATTGTCCATT	GTATTTGGCC	ATTAAGAGAC	TTAGAAGACT	TAAGCCATAG	ATTGCTCAGT
50401	GAGACCCCGA	GGGCAAATGG	TCTGAAGGTG	AATAGATCAT	TTCACCTTTA	AGAGAGCAGG
50461	TAGGAAGCTA	TAAATCCAAG	ATTAATAAAGT	TGACTGAACT	GTTAAAGAAG	AAACTCTAAT
50521	CTTGAGCCAC	CCTATCCTTG	CTCCACCTTC	TGCTGCAAGC	AAACAGAAAT	GCTGAAATTC
50581	AACACTCACA	AAGGCTGGTA	AGCTGGAAAT	GACAAAAATT	ACTCCTGGGA	AAGTCAGATT
50641	TAGAATTAGG	CCATATTTGT	TGGGGTTTCA	ATTTTCATGT	ACATTTGGGA	AAGGGTTTAG
50701	CTTATAGGCA	CATGCATGAA	GGGAACCTGGT	ATAGGGCTGT	GTTTATAAGG	TCAAGAGTTG
50761	AAGGCCAGGC	ATGGAGGCTC	TTGCCTGTAA	TCCCAGCACT	TTGGGAGGCC	GAGGCAGGAG
50821	GATGGCTTGA	GCCCAGGAAT	TCAAGACCAG	CCTGGGAAAC	ATAGGGAGAT	GCTGTCTTCA
50881	CAAAACAATT	AAAAAATAAA	ATTAGTCAGG	TGTGGTGGCA	CACACTTGTG	GTCCCAGCCA
50941	CTCAGGAGGT	TGGGAAGATC	ACTTAAGCCT	GGGACATTGA	GGCTGTAGTC	AGCCATGATA
51001	GTGCTACTGC	ACACCAGTCT	AGGTGACAGA	ATGAGACCCT	GTCTCCAAAA	AAAGAGCTGT
51061	ATCCACATCC	CAGGAAAGTG	GTTGAAGATC	TACTTTTCTC	TGTAAACCTA	ATAAAGAATA
51121	GAGTGACAAA	TGTGTGTTGT	GGAAAGAAAT	GGGGTGAGAG	CTACGTAGAT	GCAAAACAAT
51181	ACATCCCCAC	ATACCACTTG	TTAATCATCC	TTTTCCACCC	ACTTATGGGA	TGAATTGCAT
51241	CTCCCCAAAA	GATACTCTGT	CCTAACCTTC	AGTACCTGTG	AACCTGACCT	TATCTGGAAT
51301	ACGGTGAGTT	CACTGGTTAA	GAAGAGATTA	TAGTGGAATA	GGGTGAGTCC	TCCAACCAAT
51361	GACTGGGGTC	CTCACAGACA	CAGAGGGATG	ATGGCCAGGT	AGAGATGGAG	GCAGAGATTG
51421	GAGTTATGCT	GCCACAAACC	AAACACAGGA	AGCTGCTAGA	AGTGGAACA	GGCAAGAAAG
51481	AATCCTTCCC	CAGAGGCTAC	AGAGGGATCT	TGGCCCTGAT	AATACCTTGA	TCTCAACTGG
51541	CCTACGTAAC	TGTGAGAGAA	TAAATTTCTT	TTGTTCTAAG	CCACCCAGTT	GATAGTACTT
51601	TGTTACGGCA	GCCCTAAGGA	ACTTGATATA	CATTTCCTTT	ACTGTCATAG	AAGTTTTGAA
51661	TCTTTTAAGT	AGGTCTGTAC	CCTTCCTCCC	AGTGTCACAG	CATGGAATTC	CTCTCCTTGT
51721	GCCTTGAAAA	GTGAAAGGTG	TTTGAACCTG	TAATGAAAGA	AATCTCAGCA	TGAGGCCAGA
51781	TGCTGTACCT	CACACCTGTA	ATCTCAGCAC	TTCGGGAGGA	TGAGGCGGGC	AGATCACTTG

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55081	TACAGCTCAC	AGTCTACTGA	TGTTCAAGGA	TGCTCTTGA	AGTTGGGGCC	ACTGAATTA
55141	ACTGAGTCCA	ATACCTCTAC	TCACTCACTT	TCACTGGGC	TTTCTGTATC	CAGGAGCAAG
55201	GTGGCAGGTT	TTAGGGTGTG	GCAATTTCTA	ATGGGTGTG	AGGGATTTTC	ACATAGCAAA
55261	CTTTGGTACT	TGGTTAATCT	AGCATTTGTT	AGCCAAATGAT	GTATTTATTA	AAGTCAACAC
55321	AGCATGGAGG	GCCTTTAAGT	TTAGGTTTTC	TCCAAGAGTT	AGCTTATCTG	CCTCTTGTGC
55381	TAGCAGGGCT	GTGGCTGCCA	AGGCTCTTAA	GATGGAGGC	CAACCTTTAG	AAACTCCATC
55441	TAGTTGTTTC	GAGGCCCCAGC	CTCGGCCAGT	GCCCCACAGT	CTGGGTCAAA	ACTCCAACCG
55501	CCATTTTCTC	TCTTTCTGAC	ACATAGAGTG	TAAAGGGTTT	TGTCAGGTCA	GGTAGCCCCA
55561	GGGCTGGGGC	CGACATGAGT	TTTTCCTTTA	ACTCATTTGA	AACCTATTGC	TGTTGGTTGT
55621	AAATAGATGA	GTTTATCCAA	TCTACATTTT	TATTAACCTG	CACCCACCAA	AATATTTGACT
55681	CAATCTCTGC	AGCTTATTTGA	TTTGGGATTT	TAAATTTGATC	TGCTATTTCC	TGTGGGACTC
55741	CAATTTGCATC	TAAATAGATG	TGAGAGTTGA	AAGACACATA	AGGTCCTCT	CTTGCTTTAC
55801	GATGCTTTAT	TTTTCTCTCC	TCTGGTTGAT	GAAATGCTAG	GGTGMAAGG	ATAGCCAACT
55861	GGACTTAAAGT	ACAAGTGCCG	CTCCAGTTAT	TGGCAGAGT	GCCCAAGTAA	GGTCCACCAAC
55921	AATACCAACA	CACATCCCGT	TGGGATGAA	CAAAAGGCTGA	CTGATTTAGA	AGCTCCCTGAA
55981	AATCTTTAAG	CTCACTGCAAT	CCCTTCAGGT	CTCCAAGGAA	TGCTAAGTTT	CCTCCCTGTG
56041	ATGAGTGAAC	AGAAAGTGAAC	TTAGTTTGG	GAGATTTGAAG	CTGGATGGCC	CTCAGGGGTT
56101	GACCTGCAGG	GTGCTGGACT	TTGAGTTATG	GAGATTTGAAG	CTGGATGGCC	CTCAGGGGTT
56161	CAGGCTGTAG	CATCCTGGAA	AACAGTTATG	ATGCAAGCCC	TCTGGCCTGC	AGCATTAACAA
56221	CACCTTAGTG	GAAAGGGGAT	AATCTGGCCC	TCTGGCCTGC	CATGTCGCA	AGCATTAACAA
56281	TTGGTTTGTG	TTAATGTGTG	GACAGAAATAT	TTGATTCATTT	CAACTGGGG	ATTTGCTATC
56341	TGGTATCCCTG	CTTAATTTATC	AAAGTTTGTG	TTAAGTCTTT	AACCTCTATG	AGCCTCTAGT
56401	AAATAGATG	TATGATTTTA	GGMAATTTACA	AAAAACCGGT	GGGGCAAGTCC	ATCCTCGCTC
56461	TTTAGTGGTC	CACACACAT	TGACCAACT	ATGGCATAAA	AGCTCTACAT	CAGGGGGCAA
56521	GACTCCCTCGT	TGACACATGGG	GTCTTTATTG	AAATCTCTCT	GGATTTAATG	GTCTCAGTTT
56581	ACTAAGGCTC	AGTCTGAGGA	GAGTCAAGAG	GGACAGAGGT	ACTTTTCTGA	AGTACAGAGA
56641	TGCTCTCGAC	TTGGCAAGTC	CCCACAGGGT	ATAACCAAGG	AAGCATTAAG	TTCAATAGTT
56701	TGAGGCCAAA	TTGACTTTGT	TATGTTAATA	ACTAGATGGT	CAGAAATAGA	GTGAGGGAG
56761	AAGAAAGAGT	AATGAAATAG	ATGAAAGAGT	TTAAATTTTC	TTAGCTTTAG	TTGGTAGGG
56821	TTTTCCCTG	GGAATATGGC	CCATGACTCT	GGAGGGGTG	GCACCTTTCT	GACTCGGGTG
56881	TGATGAGTCC	ATCCCTTTT	CACCGTATGA	ACAACAGTCT	CGCTTTTCC	CAGCCACAAAG
57001	TCTTCAGGCT	GGTGCTGGT	TACAAGAAAT	TCTAGGGGTG	GTACATGTGC	TAAAGAGACTT
57061	TTAGTTTGA	GGGAAAGGAA	AGTGGAAAGT	AAACCAAGTA	TATAACTTTT	AAGAAGTTGA
57121	CCTTTTGTG	TAAATGTGGG	GACATCAACA	GTGGACTTTA	TAGTCCCTGG	TGCCCTCTTA
57181	CTGAGAAAT	TCCCTTAGCA	CCTATTTTGA	TTAGTTTGA	GACCAAGAA	AGTCAAAATGC
57241	CATTTATAT	TTGACAAAGC	TTCTTGATG	TTTATACAG	ATAAGCTAGA	TTTCACTTT
57301	ATATTTGGTG	GTATTTAATG	TTAACTTAG	TTTAAATAA	ACTCTGTAGA	CATATTTAT
57361	TGATTTTAA	TGTCGACCA	TAAAGTTAAG	TTTTATAGA	CTTTCTTTA	ACCTTTTATA
57421	ATTTTGTGA	AAGAACAGGT	TAGTCTTTA	AGAAACCC	GTGTGTGTTT	TATTTAATG
57481	TTCAAGTTCA	AGAAACACTG	TATGATCCCC	CTTAACTTTA	GGCAATATGT	TTAGACACAG
57541	AATTTCTTT	ACAATTTAAG	TTCAAAAGG	TGCTTAAAC	TTCAAAAC	TTTGTGTAAC
57601	CTTTAATGT	AGGTAAAT	CCACATTTCT	ATGATCTCT	ATATACCTTT	TACCAAGGT
57661	ATATTTTACT	TTCTTTACAT	ACCTTGACCA	TAACTGTGTT	ATTCATAGT	TTACATTTA
57721	GAAAGAGGCC	TAAATTTACT	TAAATTTATC	AACAATTTCT	GCATTAATTT	ATTTTCTTAA
57781	CACACATTTT	TTTCATGACT	TTCAACAGCA	ATTCTTCGAC	ATGCTCTCAAC	TTTCTGACTT
57841	ATTCGAAACA	TCCCTTTCTT	TAAACAACTA	GTTAATTTAT	CTCAGGACAA	GGATTTTCCA
57901	TACACATTC	TTTTTTATAT	AAATCTGCCC	TTCTCTTTAT	TTCTTTT	TTTTTCCGAG
57961	GATGATTAAC	ATTCTTTTCC	AAAGCGAACT	TCTTTATGT	CTGTGACTA	GACTGTCTTA
58021	GGCCACAGA	TTAGAAAGTTA	CTATAATACA	TGTTACACTG	TTAACTTTA	GCATACTTTA
58081	CTTTTGTGA	AAACCTTGA	AGTTTGGAT	TTCAATTTATC	CTTTGCTAT	AATAAGACCT
58141	TATTTAGTCC	AAATTTAAT	AGATTTGGAT	TTCAATTTATC	CTTTGCTAT	AATAAGACCT
58201	TGGGAGGAAC	CATCTATCT	CCTGTCTCTGA	AGGAGTTCC	TCTTAGGCT	GGTCAAGACT
58261	TTGTATGGA	ATTAAGATT	AGATCCCTG	TTAGGAAAC	TGCCGGGTTA	AGAGAATTTT

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61561	AGAGATGCAA	TATTTAGGGT	TCAACAAGAC	TGAACCTTCTG	ACTCCTTTCC	CTACCTCTCC
61621	AGCATGTTAG	ATTCTGGGTC	CTTCATCCTA	ACCCCTGT	CATGCCATAG	CCACCCTGTG
61681	GTACCAACTT	TGGAAGCCTG	GATCTTCATC	CCCTCATGAT	AATGAGTGTC	CCATTGAGGT
61741	CTCCATGCTC	AGCTTGGCAA	GAGTATCTGT	CTTCTCCTCA	TGGGACGGTC	ACATTCACCC
61801	AGCACTGACA	GGTTCCATTC	CCACTAGGGT	GGCACCCCTAT	ATGGTCTGAG	TCCAGGCCTT
61861	CCTGGTCCCT	CAGTAATCTC	AGCATGGTAG	CACAATCGAA	AAGGGCTAGG	CACGGCAGCA
61921	CCATTTCCCA	CCAAGAGGTC	TGATGGCTCA	TCACATAGAC	TGAAGGAGAT	TCTGAAGAGC
61981	AGAGGTGGAA	TGAAGAATGA	ATCCTGGGCT	CTGCTCTTCC	TAGGCCTGTC	TTCTCTCTC
62041	CCGAGATGTT	AGCTAACTCA	TGAGAGCCAG	AAACCAACTG	CAGGCTGGCC	TCAGGCACTT
62101	AGGTAGTGCT	TCAGCCTCAG	CAGTCCACAT	TCTAGGAACC	CTCATAATAT	GGGTTGAAGT
62161	ATGCATTCCC	ACAAAAATAA	AGTTGTTGAA	GTCCTAACCA	CCAGTACTGA	AATGGGAAAA
62221	GTTCCCTTGT	CCCGCTCGCA	TGGCATGTGA	TAGGAGTGTC	GCTAATTTCT	TCAGTGCCTG
62281	GCTGCTCAA	CCTCTAGGGG	AACAGTAAGA	CGGGCAGGTT	GTGGGTCTCC	AACCCCATGA
62341	CCCCACCACA	GTGTCTAGGG	TTGAATGTTT	ACAGCTCCTG	AAGCCACAGT	GGGTGTGTGT
62401	TACAGGGTGC	TCTTTTAGTT	TTGCCATTTA	TAGGCAGCTG	GTGTTAACCA	ACTCAATTAG
62461	ACCGTCTACC	TTGTCCCAAG	GACAGAAGAA	GGCTTTCTGT	ATCCCAGGTT	CTTGCCTTGG
62521	TGTACCGGAA	TAAATCAGAC	CACACCTGGG	CTTAGAGAAA	GAGTGCAAGG	TTTTATTAAG
62581	TGGAGGTAGC	TCTCAGCAGT	TGGGCAAAAG	CAAAAGTGGG	TGGAGTGGGA	AAGTTTTCCC
62641	TTGGAGTCAG	CCACTCAGTG	GCCCAGGCTC	TCCTGCAACC	ACCCAGTCA	AATTCCGCCT
62701	CATTTTGCCA	GGCAAACGTT	TGTTGTGTGC	TCTTCTGCCA	GTGTGCTCCC	CTGGACGTCC
62761	AGCTATTCTG	GTCTTGTGGC	AGGCCAGGGG	AGGTCTTGGG	AAATGCAACA	TTTGGGCAGG
62821	AAAACAAAAA	TGCCTGTCTT	CACCGTGGTC	CCTGGGCACA	GGCCTGGGGG	TGGAGCCCTA
62881	GCCGGGGACC	ACGCCCTTCC	CTTCCCCACT	TCCATATCAT	TTAAAGGGAC	CATGCCCTTC
62941	CCTTCCCAGC	ACTTTCCCCC	TCCTGTATCA	GGACCTGTGA	ATGTGGCCTT	ATTTGGAAAT
63001	AGGGTCTTTG	CACCTCATCA	GTTAAGATAA	GAGTGGGCTC	TAACCCAACA	TAAAGGGTGT
63061	CCTTATAAAA	AGGAGAAATG	TCATACAGAC	AGACTGACAC	CTATAGAGAG	AAAATGTGGT
63121	GAGTAGACAC	AGGGAGAATC	ACCATTCAAG	TCAAGCAATG	AGTCTGGGGA	TACCAGAAGC
63181	TGGGAGAGAA	ACCTGGAACA	GATTATCCCT	CATTGCCTTC	AGAAGGAATC	AAACCTGATG
63241	ATACTTTGAT	TTCAGACTTC	CAGCTTCCAG	GACTGTGTGA	CGATAAATAT	CTGTTGTTAA
63301	GCCAACAAGT	TTGAGGTACT	TTGTTACTGC	AGCCCCAGAA	AACTAATACA	GTAGGTACTA
63361	TGGACTGAAT	TGTGACTCCC	CGTCGCAAAA	TTCATATGTT	GAAACCCTAA	CCCCCAGTGT
63421	GATGGTACTT	GGAGCTGGGG	CGTTTGGGAA	GTCATTATAT	TTAGACAAAC	TCATCAGGAT
63481	GTGTCTCTCA	TGATGAAATT	CATGCCCTTA	TTAAAAGAGA	CAACAGGCCA	GGTGCAGTGG
63541	CTCATGCCCTG	TAATCCCAGC	ACTTTGGGAG	GCTGAGGTGG	ATGGATCACC	TGAGGTTGGG
63601	AGTTTGAGAC	CAGCCTGGCC	AACATGGTAA	AACCCCATGT	CTACTAAAAA	TACAAAAATT
63661	GGCCAGGTGT	GGTGGTGCAC	GCTTGACTC	CCAGCTACTT	GGGAGGCTGA	GGCAGGAGAA
63721	TCCCTTGAAC	CCAGGAGGTG	GAAGTTGCAG	TGAGATCACA	CCACTGTACT	CTAGCCTGGG
63781	TGATAGAGAC	TCCATCTCAA	AAAAAAAAGAC	AAATAGACCA	GGTGCTGCAG	GGTGCTGCAG
63841	CTGATGCCCTG	TAATTCCAAC	ACTATGAGAG	GCTGAAGCAG	GAGGCTCGCT	TTAGCCCAGG
63901	AGTTCAAGAC	CAGCTTGGAC	AAAATAGTGA	GACCCCCAAC	TTCTAAAAAT	TTAAAAAATG
63961	AACTGGGTGT	GGTGGTACAC	ATCTGAGGCT	CCAGCTACTC	TGGAGGCTGA	GGTGGGAGGA
64021	TTGCTTGAGC	CCAGGAGGAG	GCTGCAGTGA	GCCATTGCTG	TCCAGCCTGG	GCTACACGAG
64081	AACCTGTCTC	GGGAAAAGGA	GAAAACAGTG	AGACCTCTTT	TTCTCTCCTC	CTTCTCTCCA
64141	CTGCCCTAAGC	CCTACAAGCA	CAAAAAGGAC	ACCACATGAG	CACATAGTGA	GAATGCTGCT
64201	GCCACCAACA	AGTCAGGAAG	AGAGCGTTCA	CCTAGAAACT	GAATTGGCCA	GCACCTGGAT
64261	CTTGGACTTC	TGAGCTTCCA	GAAGTGTGAG	AAAGTTATTT	TTTTTTTAGC	GACTAAGTCT
64321	ATAGTATTTT	ATTACAGCAG	CTCAAGGTAA	CTAACATAGT	AGAAGGGATG	AATTATGGAG
64381	ATCACAAGTC	CACGCCTCCA	GAAAAAGACT	TCCCTAAAAA	TTAGTCTGAG	CAAAATTCGA
64441	ATGATGAATT	ATTTTAAAGA	GAATTTAAGG	GATCTGACAA	GTTTGCAAGA	GCTAGAGAAAT
64501	GCTTTACAAC	GTGATAATAG	AATGCTCTGT	GATGACAGAA	ATCTTTCCAC	ACTGTTCAAA
64561	ACTAGCTACT	GGCCACTTGT	GACTATTGTG	CACTTGAAAT	GTGACTGGTG	TCTGAGGAGC
64621	AGAATGTTTA	ATTTTACTTA	ATTTTAATTC	ATTACAATAG	CTACATGTAG	CTAGGGGCTA
64681	CTGGATTGAA	CAGCACAGCT	CGAGTCTTTT	AGAGGGAGAC	AGGACTCACC	AAGGTGGATG
64741	CTGGTGGCCA	AGCAGCAATG	GCAGGTAGTA	CACACACAAG	AGGCAGATGA	TACAACACAT

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68041	CCGGGGGCT	TGATCAGGGG	CTGTCCAACT	ACGGGCATTT	TGATTTGGAG	CGTCATCTAG
68101	TGTCTGAAAG	CACAAACAAAC	ATCCTACATT	GTAATGCTT	TTGGCTACAG	AGATTGAAC
68161	CAAGCAAAAC	CTATGTTTG	AATTGTTAT	CTTCAGCAGT	TCTGCTAGCC	TTGAAATAAC
68221	TAAAGTTAA	AAAAAGCTT	TATATTTAT	TTTCTGCTA	AACCTTTAA	AATTGCTAGT
68281	TGACAATTAG	ATATTTCAA	TTAATGAA	TTTTTTTTT	GTTCAACAGT	TAAATACAA
68341	TGGGGGAGGG	TTCTTATCT	GTTGACTT	TACATAACCT	CCACTTTAGT	GCAGTCTGCT
68401	TTAGGGGTC	TTGTTGAGG	TGTGTTGTT	TTAAGGAA	TGTGTTTAC	AATCAATAAT
68461	TTGGGTTGCT	CTTAGGCA	TAGGCA	AGGCTTAC	TTATTAAT	TTAGTAAT
68521	TTAATAACA	TTATTAAT	AGGCTTAC	TAGGCA	TTATTAAT	TTAGTAAT
68581	TTTATAATT	TGTCTTCTG	TGAGGCA	GCAATTCA	GTTGTTAG	GTTGTTAG
68641	CAGTATTTAT	GTCGTCTAT	CTCAGTAT	TGCTTCACT	TGCTTCACT	GTTGTTAG
68701	AGAAGCGGATG	GTCATTTTAC	TTCAAAATG	TTAAATTTA	TTAAATTTA	TTAAATTTA
68761	AAGACCCCTAT	GTTTAACTTC	CACCTCCCGG	TAAATTTGTC	TAGTCCCTCC	TTTTCATATC
68821	ATCTCTGATA	TCTTTTGCA	AGCCACTAT	ACCTAACGTT	TTCTAGATCC	CTATTTCTCA
68881	AACACCAACA	TGAAGGTAGA	GCTGTCTGA	ATTATTTCT	TGTCCCGTGA	ACTCAGTACA
68941	TTGTTAGGCT	TCTTGAAGAT	GTTGATCAGT	TGTTTGTGA	GTAATGAAT	CAGCTAGCAT
69001	GATTTTCTA	GACCACTGAG	ACAAGTGTCT	AAGACACTTG	TTCTTCCCA	TGTTCTTGCC
69061	TGCTTGTGA	ATCCATGCA	TCTCATGCT	TCCAGTGC	TCAGAATTAT	CCCTGTGAA
69121	ACAGGCATTA	TAAATTTCTG	CCAATTTGAA	GGACAAAAA	CTAAGTGTAT	AGCTAGAAAT
69181	TAAAAATTTAC	CGGCCAGGTA	CTGTGCTCA	CTGCTGTTAT	TCCAACATTT	TGGGAGGCTG
69241	AGCGGGGCGAG	ATCACCTGAG	GTCAGGAAT	CGATACCAAG	TGGCTTAA	TGGGAGGCTG
69301	GTCCTATCA	AAAAATGTA	AGTTAGCCAG	GTTGCTGCT	TGGGCTGCT	GGCCCTGCT
69361	ACTCAGGAGG	CTGAGGCGAG	AGATCTGTT	GAGCCCTGGA	GTTGAGGCT	GCAGAAAAAT
69421	AGGAATATAC	TCTCTTTCAA	GAGTCTGCT	TTTGACTGC	CACCTAGCGT	ACATCAGAAA
69481	AACCGCATGA	CATAGGAAT	GCTGTGACA	GAGGGGTAG	GTTGAGAGG	TTGATGAAGA
69541	ATGTATGAA	GAGGTGAAAA	CGCTTCCATC	CCTCTACTTA	CTAATATAT	TAGTTAAGTA
69601	GTTGGGGCAT	ATTTAATTC	ATGCATTTTG	TAGATAGAAA	AACAAGTT	TTATTTCTG
69661	TGATTTAGTT	GATACCTTAA	TATGTGTG	TTAGGATGC	ATGATTTATA	ATCAGTCTGC
69721	AGCACTCTT	GGAGAACTCT	GAACTCTCAT	TCTCGATTC	CTTATTTGCA	ACGTGAAGAT
69781	GATTCATG	GTTGGTTGCT	CATGAATGC	AGGAGTCA	AATGAATA	GTTCCATATA
69841	TGCTTGTGC	AGAGGAAGG	TTCAAGTTAC	TGTCTGTAT	AATATTAAT	ATAACAGTCA
69901	TGACAAACAA	AAGCTTAA	CAACCACT	TGCAAACT	TGCAAACT	AGCCCAAT
69961	TTGCACACA	GATTTAGG	AGAGTCTT	AGAAAAAT	TTATTAAT	TATGATATA
70021	TTTTGTACT	TAAATATGT	CAGAGTTGT	TCTAAGAACT	ATTTAATGT	TAACTCTTA
70081	ATCCTCATTA	TGACCCCATGA	AACAGGTAGG	CTTATTTAG	TCTCTTACA	TGTGAGAAC
70141	CTGAGACACG	AAAAAGTTA	TTAACTTACC	CAAGTCA	CAGCTGGTA	AACGGCAAAA
70201	TTGAATTTGA	ACTCAGACAT	TCCAAGTTCC	AAGACAGTCT	AATTAATTT	TTGACTAATA
70261	TACTAAGCTG	CCTCTGTAT	TTTCTGTAT	TACTTTGTAA	AAGTATGAGG	AAAAATATAAG
70321	TGCTTCAAGT	AACCATGAAA	AATATAACA	ATCTATGTAT	CACTGAAGC	ATAATTAACA
70381	ATCCTTTGAT	AAGCAAACT	AATAAAAT	TGATATCAAT	CAAACTTTC	ATGTAATGTA
70441	AGCAGTTGA	GATGAATCT	ATAGTAAAT	AGTCAAGT	GCTGGAATAC	CATGCTCTTA
70501	ATATATTTGC	TAGGCAAC	TGCGGTATG	CAACAGTATG	CACACACCTT	GGATACAGAA
70561	AGTTGGGACT	GGTATGTTAT	TGAGTGTCA	TTCCCACTT	TTCCCACTT	GGAAAAAT
70621	GTTCCATCA	AGCTTGATG	ATGACAAAG	AGTGAAGTCC	CAGAACAGT	ATGTTGGGAT
70681	ACATCTCTAC	ATCACAGTGA	GAAATGAGTGT	TCTAGACTGT	TTACACACCT	ACCACTCTTA
70741	AATGCACACA	TATTAATTTCT	TGCACACACA	CACATACACA	CTCATCTCTT	CTCTGGTGT
70801	CCAGCTCTAT	CTCTTATCAT	TAGGCTTCTT	GGGGTATGTA	CCTAAGGCTT	GTAATCTTTC
70861	AGAGGCAAGT	AAGGAAAGCA	CACATAATTA	GAAAGAAATGA	ACCAAGCTTGT	TGATTTTGGT
70921	CTCTTCCGAT	CCAGCCCTCC	AAGTAAAGGA	GAGTACCATC	TTTCTTAAAGG	TCAACCAAGG
70981	AAAAAATA	AAAAAATA	AACAGAAAGGA	TATCATACAG	CAAGGATCTA	ATGCAAAATAT
71041	GCTTCAAAATG	AGAGGCTACT	TGTGAGGAGT	CCCAATCCCA	GGAACTGTAT	GCACATATATC
71101	TAAATTTAATC	CTCAGCTGTAT	TTCTGGGAGT	ATTAATCCCA	TTTAACAGAG	AAGAACTTG
71161	CAAGGCTAAC	CAAGCTCATG	AATGGAAGAA	CTGGGATTA	ATATAAGCT	TCTTGTCTCC
71221	AGAACTGTCTG	TCTTCTGCT	CTTCCAGACT	ACCAAGCTCAG	CTGTGCTCTC	TACATGTCAGG

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74521	CTAGACTGAT	TTAAATGTT	CTAAAAGTGT	AAAATACACA	CCAGGTTCTG	AAGATTTATC
74581	ATTTAAAAAA	GAATGTCAAC	TGCTTTTTTT	TTTAGCTTAT	TTATTATATG	TTGAAGTGAT
74641	AATAGTTTAG	ATATATTAAG	TTAAATAAAA	TATCTTAAAA	TTAATTTTAC	TTGTTTCTTT
74701	TCATTCTTTC	AATGTGACCA	CTAGAAATCT	GGAAAGTATT	TATGTGATTG	ACATTCTATT
74761	TTACTGTCTA	GTATTGCCTT	ACATCATCAG	GTACCCCAT	AGTAGGCTTT	TTAGATAATT
74821	CTCTAATATA	GCTTGGAAGG	ATATGGAGAA	ATATTTTTGC	GTTGCTTTTA	AGTTTTGCAT
74881	AACTTTTTCA	ACACACTTTA	TAAAGGATCT	AGAAAAGGGT	TGGTTACATG	TTTCTCTGTC
74941	TTCTGGCCTC	CACCATGTTG	CCAGGAGGTT	GGGGACAAGA	TTCTGGGTGG	CTGGATGTCC
75001	TAATGGCTTG	AGGTCTGGAC	TTGAGATTTG	CATATAAAGA	GATGTGATTA	GATTGAGTCG
75061	ACTAGAAAAA	TCATATTAGA	GAAGTGAATC	ACAGCGATTA	AATTTACATG	TCGATTTATA
75121	AACCAGGACA	CCAATTTATA	GTGAAAGAAG	GTCCAGTTAC	CTGGTAATCA	AGACGTTTCA
75181	TAGCTATTTT	CATGATGGAT	ATACTTAGCT	GAGTTTTAAA	TGAGAAGGGG	GTTCATTGCA
75241	CATAGAATAA	GATCTAAGTG	AAATGTTTAT	TTATTTTTTT	TTTTTTTTGA	CATGGAGTCT
75301	TGCTCTGTTG	CCCAGGCTGG	AGTGCAATGA	GGCAATCTCG	GCTTCTGGAG	TGCAATGAGG
75361	CAATCTCGGC	TTCTGGAGTG	CAACGAGGCA	ATCTCGGCTC	ACTCGAACCT	CCACCTCCCG
75421	GGTTCAAATG	ATTCTCCTGC	CTCAGTTTCC	TGAGTAGCTG	GGATTAGAGT	TGCCTGCCAC
75481	CACGCCAGGC	TAATTTTTGT	ATTTTTTTTA	GTAGAGATGG	GGTTTCACCA	TGCTGGCCAG
75541	GCTGGTCTCG	AACTCCTGAC	CTCAGGCGAT	CTGCCCGCCT	CAGCCTCCCA	AAGTGCTAGG
75601	ATTACAGGCG	TGAGCCACCA	AGCCTGGCCT	AAGTGACATG	TTCTTATATT	GTTCCTTTCT
75661	TTCTTTTTTT	TTCGACTGAG	TCTCACCTCG	TTGCACAGGC	TGGAGTGCAG	TGGCGTCATT
75721	TCGGCTCATT	GCAACCTCTG	CTTCCCGGGT	TCAAGCGATT	CCCTTGCCTC	AGCCTCCTGA
75781	GTGCCACCAC	CCCCAGCTAA	TTTTTGTAAT	TTTAGTAGAG	ATGGTGTTTC	ACCATGTCCG
75841	CTAGGCTGAT	CTCAAACCTC	TGGCCTCAGG	TGATCCGCCC	CCGAGTCTCC	CAAAGTGCTA
75901	GGATTACAGG	CGTGCGCCAC	GGGGCCCAGC	CTTATATTAT	TTCTTTTACT	ACAATATATT
75961	AGTATGATGC	AGGTGCTTCA	ATTGTTTATA	CACCTTCCAT	AATTTGTAT	AATTCCTATA
76021	CCCTGTCACT	CTGAGGAATA	CGCGGTCTAA	GTGTTTTTCC	ACCACTGCTA	ATTCATCCAT
76081	CACTAATCTC	ATTAGACTGT	TAATTTCCAG	AGGACATAAG	CACACAAGCA	GACAATGTTT
76141	ACAAATGTTG	GACAAATGTT	ATTTAATAAA	ACAATGGGGT	CACCCCTAGT	CTAAAAGATG
76201	TTTCACTTTT	CATTTGTCAT	TGAACCTCTA	TTTGTAGGTT	CCCTTTTGAC	TTTCCACAA
76261	TCTAAGGCTG	TTCTCTTTAA	CACATATTTT	CATGAAAACA	TATATTTGAG	CAGAAATTGT
76321	TGGGGAGTTG	TAATATTACC	TTTGTCCCTA	AATATGAATC	TATAATTATA	TCAAATATAT
76381	GGGCAGACAA	TTTACTTTGC	CTTTAATCTC	AAGAAAAAAA	TAGCAATTAC	TTGGGGTCGG
76441	AGAGTAAAAT	AAGAAGTAGT	GAACCTTAAA	GTAGCAAAC	TTAGAACAGA	ATAGTTTCAG
76501	AGGGGATGAG	AAGAGGTGAT	TTTTTCAGCT	ATCAACAACA	GATCTTATAA	TAAATTACAT
76561	GTTCTGGTAC	TTTTCTTGTC	TTTCTGTGTT	AAATTTTGCT	ATTTAAAAAA	ATAAATTTCA
76621	AATACATTGT	TCATCTTAAA	AGTCAAGAGT	GTGTTTTATT	AAAGTCAGTT	GCTTTATTTG
76681	CAACTCAAAA	GATATATTTG	AGTTCCCAAC	TGGAGATTGT	CCTATATGGT	AAGTTGCGTA
76741	AGGTATGGTT	ACTGAAAGTA	ACCTACAATT	TTTATGGGCT	GAAATTCATT	CTATATTGCT
76801	AGCGTACAAA	AATAAATAAA	TAAAAAATGC	TTGTTTTCTT	TGAAAACATA	TTATCTCAGT
76861	GCCTCTAACT	GCCAAATCTA	TTGGCTTTTT	TGCAGGCTTA	AGGGCTCTCC	CTTGTTCCCT
76921	TATGATCTCT	ATCTTGAGGG	CCAGACCTCC	TGCCTTACAC	AACTCAGAGG	GGGACCTCAG
76981	AGCTCTTTAA	AAAGAGCCCA	ATTTCTCGCC	TGTAGAGAAG	TGAAAAGGAT	GCCCCACCCC
77041	CATCTATGAA	AAGAGGGATT	TGATAGTTTC	AATGTCTTCA	AATCAAAGAT	TTAAGTCTGT
77101	AGCCCCCACC	CACCCCGGAC	CCTAGCAAGG	CTCATGAACC	CCCTCCCATC	CCGCCCTAAT
77161	TGCTTTGGAC	TGGCCGTGGA	ATCCTTGTC	CAGTCCACAG	TTCTGTGCG	ACTGCACGAA
77221	GAATTCACAG	AGGACCTGTG	TTACTTCCCT	TGTGAAGAAA	CAGAATTATC	ATGAAAATTT
77281	AGGTGGAAC	CATTTGCTTT	TTTTCTTCAA	AAATAAGGGA	AGCATGTGCC	CAACCACCCC
77341	TGGGAAAAAG	AACCTTCAGG	GGCAAAGGAG	CGAACAGGTA	ATTTATAAGA	AAAACAGAAA
77401	GTGGTCTCTG	ACTGCCCCAG	ACTTCCTTGG	GAGTTGGGGG	AATTGGGGAC	CGCTGGACGC
77461	GTTGTTTTTG	CGTTTGTTGA	AAAAATAAAT	GAAGAGCATG	AAGCCCGAGG	CTTCTGAGAT
77521	CCTTTCCTGA	CCAAACCCAA	GTGATTTGGT	GCGGGGAATT	TTAATATTTT	TCCCCTTTTG
77581	TGAGGTGGAA	CAAACACAAC	TTGGGAGCAG	CGCAGCGGCT	CAGAGCCTGC	CAGCCAGGCG
77641	GGCGACCAGA	GCACCAATCA	GAGCGCGCCT	GCGCTCTATA	TATACAGCGG	CCCTGCCCCG
77701	ACGCTGCTTC	ATCGGCGCTT	TGCCACTTGT	ACCCGAGTTT	TTGATTCTCA	ACATGTCCGA

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81001 GTATCAGAG GTAGGAGATT CAAGACAGAG CTGCGCAAGA TGGTGAATC CCGTCTCTAC
 81061 TAAAGTATA AAATTAAGCC AACCATGGTG GCAGGCGGCT GTAATCCCGG GTACTCGGA
 81121 GGCTGAGGCA GAGAAATTGCT TGAACCCCGG AGCGGGAAGG TGCAAGTGAGG CGAGACAGTG
 81181 CACTCCAGCC TGGGTGACAC AGCGAGACTC CGTCATAAAA AAAAAGAGCCG GAAGCAGTG
 81241 CTGACCGCTG TAAATCCAGC ACTTTCCAGC ACTTTGGAG GCTGAGTCA GCAATTAAC TGAGGTCAG
 81301 AGTGGGAC CAGCCTGGCC ATGAAATAC AGCCTGGCCA TGAACAACA CAATTAATTA
 81361 GCTGGCGGTG GTGTCAACA CTTGTAAATC TAGCTAAGT GGAAGCTGAG ACAGGAGAT
 81421 CACTGAAC CAGGAGGAG AGGTGAGT AGTCTAAGT GAGTTAAGT GAGGCGACTG CACTCGACT
 81481 GGGGAGAG GCGAGACT CTCTAATAA GAGTTAAGT GAGGCGACTG CACTCGACT
 81541 ATTGAATTC TGTGTTCTT TCTCCCTAG ATACTTCAAT GAGTTAAGT TAAATTAAGT
 81601 TTCTATCAT CTCCAAGAG TAGTCAGAG AGAATCAAC CCAAGCAAAA ATAAGTGAAT
 81661 TTCTAATTT CCTTCAATGC CCTTTGGGT CTAAATCCAT TGAATTTATG TACTTCAAT
 81721 TAATCCTAAC CTGGAATGC TTCTGCAAC ATGTTCCAC AGATGAATC GTCAATGA
 81781 AACACATTC TTAATTTAT AGAGTTAATA ATTGAATAA TTTCAATTC TATTGGCT
 81841 TTAGATTGAG TCTTGCAT TCTTGCAT TTTGTTCAAT TTTGTTCAAT TTTGTTCAAT
 81901 TCCATCACAA TTGTTCAAT TTTGTTCAAT TTTGTTCAAT TTTGTTCAAT TTTGTTCAAT
 81961 TTAATTTAG CCAATTTAAG ATGAAATAG ATGAAATAG ATGAAATAG ATGAAATAG
 82021 ACTGCAATG AGGACACATG TTTTCTGA TTTTCTGA TTTTCTGA TTTTCTGA
 82081 ATTAACTGA CAAAGGACAG ATTAACATG GAAATTAAGT GATGCAAT TTAATTAAGT
 82141 ATTACATGCA CAGAGTTCC CAGAGTTCC CAGAGTTCC CAGAGTTCC CAGAGTTCC
 82201 CACAGACTTA TACACCATTC CACACCATTC CACACCATTC CACACCATTC CACACCATTC
 82261 TTTGGGAATG TGACCAAGAA ATAATACAT CACACCAAGAA AAGGAGTTT GACCTCATG
 82321 AAGTAGAATA TAATTTGATG AAGTTTGT TTTGCAAGT TTTGCAAGT TTTGCAAGT
 82381 ATATCTAGTG ATAAGAAATG AAGTTTGT TTTGCAAGT TTTGCAAGT TTTGCAAGT
 82441 AGGAAATTT CTGTACACTT CACAAAGGA AATTTGGTA AAGAGAAAGC AGAGACCTCT
 82501 TCTTACACCT GTTGAATTT CAAATGCTTC AGCTGAAT TAACTTTATG CCAAGTAGA
 82561 ATAAATTTGG GTTGAATTT TGAATTTCTT CAAATCTAT ATTAATTTCT ACATTAGTA
 82621 TTATTCATTT TTTGATTTT AAATTAAGTT TATAAATAA TTTGAATAA CCGTAAATAT
 82681 CAATGAATA TTTCAAGAACT ACTGCTGATA AGCCAAATC ATCAATGAAT ATTGCATAA
 82741 CAATGAATA TTTCAAGAACT ACTGCTGATA AGCCAAATC ATCAATGAAT ATTGCATAA
 82801 AACATAAAA CTAGAAGCTA CTGTAATGC ATTAATCCAA ACTTCTGTT TTTATTTAT
 82861 TTAATTTAT ATTTGAGAC ATAGTCTCT TCTGTTGAGT AGTTGAGT GCAATGGCGT
 82921 GATCTTGGT CACTGACAGC TCACTTCCG CGTTCAGC AGTTGAGT GCAATGGCGT
 82981 CTGAGTAATC GGTATTCAG GCACTTGA CCAACCCCGG CTAAATTTT TGTATTTT
 83041 GTAGAGAGCG GGTTCGCA GGTTCGCA GGTTCGCA GGTTCGCA GGTTCGCA
 83101 CACTTACCTC GGTTCGCA GGTTCGCA GGTTCGCA GGTTCGCA GGTTCGCA
 83161 TTAATCCAA CTTCATAC CAGTCTATC ATGCTTACAA ATGTAAGT CATATTTAT
 83221 ACTCTAGG AAAGCTCTG ATATTTGG ATATTTGG TATATAAGC TGAGGGAAT GTAGTAAGG
 83341 CTAAAGATA TCAAGAGATA ATAGGATTT AGGTAAGT TGAAGAGAG TGAAGAGAG
 83401 CTAGCATTT TTGAGACTT ATTAACATA TGCAGAGC TGTGCTGAT TACTCTATAT
 83461 TTAATTTCA ACACATTTCTT TGAAGACTT TGAAGACTT TGAAGACTT TGAAGACTT
 83521 TCAAGGAGTGA GACTAAGC TTGTTGAT TAAAGATGA GCTAGTTAG TGTGTTG
 83581 TGTGTTGTTG TGTGTTGAT TTTTAA TTTTAA TTTTAA TTTTAA TTTTAA TTTTAA
 83641 TTTCAACATA AGTTAACTT TGTTCCTA AAGAGCTTGA GTCAAAATGT ATCTTCAAA
 83701 GATTCTCTT CAAGTTAGCC CTTCCTAATA GAATCTGATG TTAATCCACA GTTGTCAAGC
 83761 CACAGTTCTT TTAATTTGAC TTTTAA TTTTAA TTTTAA TTTTAA TTTTAA TTTTAA
 83821 ACCAGGCTG CTGGGAGT GGTGATCTC GGTGATCTC GGTGATCTC GGTGATCTC
 83881 AAGTGAATCT CTGGGAGT GGTGATCTC GGTGATCTC GGTGATCTC GGTGATCTC
 83941 TCGGCTAAT TTTGATTTT TTTGATTTT TTTGATTTT TTTGATTTT TTTGATTTT
 84001 CAAGCTCTG ACCTCATGAT CCGGCTGCT TGGCTCTCA AAGTGTGAG ATTACAGT
 84061 TGAGCCACTG CACCCGCT TATTTGCT TATTTGCT TATTTGCT TATTTGCT
 84121 TGATGAAC TACAACATC TACAACATC TACAACATC TACAACATC TACAACATC
 84181 TACTTTGGG TCAATTTAAG ATAGGTTA ATCTTTGGG TCTCAATTTG ACACCTTT

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87481	TTTCTGAATT	TTGTGATGGC	TGTTGTTTTG	TCAGCTTTTA	TAAAATTGGA	ATTTGATTTT
87541	ATTTTCCCAT	TATAAATTTA	TATTTACAGT	CTGCAGTACT	TTTGCATTTT	TAATTTTACA
87601	TTATAGCTTT	TAATAGTTAA	CAAGTTGTAA	AAGGTTTGAT	CCCCAGAAAA	CCTTGATCTA
87661	CCCCCTCAGT	TAAGTATACT	AATATATTTA	GAAAATGGAT	GAAATCAGCA	TTTGAATATT
87721	TTTAAATATT	TATTTAAAGA	GGACATGGGT	AAAAGAGCTT	TGCAGTTGCC	ACCCCTTCATT
87781	CTCAAAATCC	CTGGATAAGG	ATGACCGCAT	AATCTTTGGA	TGGTCATACG	CAAGTCTTGT
87841	GTATTTGTTA	CATAAATCTA	TTTAGTGGAC	TTTTGGCAGT	GTGTACTGAG	GCCAGTTTCT
87901	TCCACCTGAG	CTCTGACTCC	ACCTCCAGCA	GCCCCAAAACC	AATACTGAAT	TTTGGGGTCA
87961	GCTATTGTTT	TTGTGGACTT	AGGTAACTAC	ACACACATTG	TCTTTATGAT	AGCTTTAATA
88021	ATACTGCCAT	CAGAACTAAA	ATTGTCACGT	GGATTTAAAG	GAGTGACGGT	GGTGTCCCCA
88081	GGAGCCTTTC	AATATGTAAG	TATTTACACA	TATACATGCT	AAAAAGACCC	CTAGGAATTT
88141	TTTTAACCAAG	GGCAAAACAG	TAACTCAGCT	TGTTTTCTCG	CAGTAAAACC	GGTTGAAAAG
88201	GCCTGATAGA	CTTGTCTGCA	GTTACAAAAC	TTGTGTGTAG	TTATCACCTT	TATATCTCCT
88261	GGAAACTAAC	ATAGACAACC	GAATGGGTTA	CAACTGTTTT	TAAGTGAAAT	TGTGAGTGGC
88321	TCTGAAAAGA	GCCTTTTCAA	TGAGGAAGAA	ACGGGCAGAC	TTATGCCCTT	TCCCCACGGA
88381	TGCGACGTGC	CAGCTGGATA	TCTTTGGGCA	TGATGGTGAC	GCGTTTAGCG	TGAATAGCGC
88441	ACAGATTGGT	GTCTTCGAAG	AGTCCACCA	GGTAGGCCTC	GCAAGCCTCC	TGCAGCGCCA
88501	TCACCGCAGA	GCTCTGGAAA	CGCAGGTCGG	TTTTGAAGTC	CTGGGCGATT	TCTCGCACCA
88561	GGCGCTGGAA	CGGCAGCTTC	CGGATCAGCA	GCTCGGTGGA	CTTCTGGTAG	CGACGGATTT
88621	CGCGCAAGGC	CACGGTGCCC	GGGCGGTAGC	GATGAGGTTT	CTTCACGCCA	CCGGTGGCCG
88681	GAGCGCTCTT	ACGGGCTGCT	TTAGTAGCAA	GCTGCTTGCG	CGGAGCTTTG	CCGCCGGTAG
88741	ACTTGCGAGC	TGTTTGCTTC	GTACGAGCCA	TTTGCAATGA	GAGCACACAC	AAAAGTGTAG
88801	TGAACGTAGA	GCAAGTGGCC	TTTAAATATA	GTGAGAAACA	TTCTGATTGG	TCCTGTAATA
88861	TTTCAAAAAGT	CCCGCGCGAT	AAAATCATTG	GCTGAAGAGT	GACCAGACTG	ATTGGTTCAT
88921	TACTAGACAA	TCTTATTGGA	TGAGTTGCCC	CACCGCCCAT	CCTGTCCTTT	TCGTTTCAGT
88981	TATCTGCAGC	GACAAATTGT	CTAAAATTCT	AGTTCATCCA	GTCCCAAAGA	ACAGATTGTA
89041	TAACAAGGTA	TCTAAGGATT	TTTAAATGT	AAATTCCGAT	TCAGTAAGTT	TGAGTGGGAC
89101	TTGAAATTCT	GCATTCCTGA	CAGTCTCGCA	AGTTATCAAT	GCTGGTGAAC	ACTCACTAAA
89161	CCACCAGAAA	CGTTCAGACT	CATGTCGGGA	AATAACGCTT	ATATTAGAG	AATGAGATTC
89221	CATGCTATTT	TGTTACTGGC	GAACAGCAAG	TTTCCTTGCC	CTTTGTTTTT	TAAGTCCAAG
89281	TCACATTCCC	ACCCTGCCTG	TTCTCAAAAT	GTCTTATTTT	GGTTGGCCTT	AAGTTTCACT
89341	TTGTATACTC	TAAAATGTAC	TTTCTAAAGG	AAGGTGTTAT	TTTCTCGAAA	CTTAACTTTT
89401	TAACACCAT	AGGCTAGGGG	GGCGGTGGCT	CACGCCTGTA	ATCCCAGCAT	TTTGGGAGGG
89461	CGAGATGGGA	CGATCACTAG	AGGCCAGGAG	TTCAAGACAA	CCCTGGCTAA	AATGGTGAAA
89521	CCCCGTCTCG	CATAAAAATA	CAAAAAGTAG	CTGGGCGCGG	TAGCAGACGC	CTGTAATCCG
89581	AAGTACACAG	GAGGCTGTGG	CATGAGAACC	GCGTGAAGCG	GCGGGGTGGA	GTTGACAGTA
89641	AGCCGATATC	GCGCCGCTGC	ACTCCAGCCT	GGGTGACAGA	GCTAGACTGT	CTCAAAACAA
89701	ACCAATCCAA	ACGAAAAGCA	AAAAATACCC	TAACAGAAAG	AAGTTATCAT	CTTTTCTTGT
89761	GTAACATATG	ACGGCTCTGA	AAAATGCCGT	TTCAAGTGTA	AGCTACGTTT	TCTGATTTGA
89821	GTGTTTACTT	GACCTTGGCC	TTATCGTGCC	TCTGTTATTT	TGGCAACAGG	ACGGCCTGAA
89881	TATTGGACAG	GACGCCTCCC	TGAGCAATAG	TGACGTTGCC	CAGCTGCTTG	TTGACCTCCT
89941	CGTCGTTTCG	GATGGCCAGC	TGCAGGTGGC	GGGGGATGAT	GCTGCGGGTC	TTGTCACGTA
90001	TGGCGCTGCC	CACCAGTTCT	AAGATCTCGG	CGGCCAGGTA	CTGTAAGTAC	ACTGGCGCAC
90061	CGGCTCCGAC	CGGCTCAAAA	TAATTGCCCT	TTCGAAAAAG	ATGACGGACT	CTGCCCTATT
90121	GGGAAGTGCA	AGCCCGGTAG	CGACGAACAA	GTTTTTGCTT	TAGCTCCATT	TTCCACGTTT
90181	GCAAAATAGCG	ACCTATGAAA	CAGCGGAAA	ACTGTGAAAG	ACAAGCAAG	TGGAATGGCG
90241	CCTGAACAAA	TCCTTTTATA	CAAACTGCAA	GGCTGCAATA	GGAAGCTATC	CTATTGGTCA
90301	ATTATGTTTG	GTGCTTTATC	CAATAGAAAA	AGATAACATA	AATTCCATAT	TTGCATAAAC
90361	CCCACCCCTC	AGTGAAACCG	TGTTTCTTTT	GTCCAATCAG	AAGTGAGGAA	TCTTAAACCG
90421	TCATTTGAAT	CTCAGGACTA	TAAATACATG	GGCTCTGAAC	TGTTCTCTGT	ACTACTCTGT
90481	AGTGAGAGAGT	GTTAGTAGCT	TTTCTATTCT	GTTTAGGAAT	AGCAATGCCT	GAACCCTCTA
90541	AGTCTGCTCC	AGCCCCTAAA	AAGGGTTCTA	AGAAGGCTAT	CACATAAGGCG	CAGAAGAAGG
90601	ATGGTAAGAA	GCGTAAGCGC	AGCCGCAAGG	AGAGCTATTC	TATCTATGTG	TACAAGGTTT
90661	TGAAGCAGGT	CCACCCCGAC	ACCGGCATCT	CATCCAAGGC	CATGGGGATC	ATGAATTCTT

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93961	ATACCTTGTA	ATATGGGGAG	ATGTGCTCTG	CTACAAAGTT	GTGATAAAG	ATTAATTTTC
94021	TAGTTACTA	TATTTGCAA	GATATAGGGA	TATCTCTT	AAACAATTT	AAGATGCT
94081	TTGTTCTCA	GATATAGGGA	TATCTGGA	CTCTTAAGTC	TAGTCTGTT	TAGTAACAT
94141	TATTTATTTG	TTCCTTAC	CGTAAACATC	TAGAAGCTAG	GAATGACTAG	CTTCTGGGA
94201	ATGCAAGCCA	GAAAGTCTCA	GCTCAATTT	CCTAGCCCTC	ACTCAAAATG	GAGTTACTCT
94261	GTTCAAGTA	ACTCTGACAC	TTTTCTCTC	TTTTTTCTT	CTTTTCTCT	TCTTTATTT
94321	TTTATTTT	ATTTTGAA	TAAAGAAATCA	AGAATACTTG	ATGTTTCAAT	TAAACAATA
94381	CCCATTAATG	ATAGCCCAA	AGGTCTTCTA	ACTCAAAACT	AGGATGTTT	TAAATGCTAT
94441	GCTGCTCTG	CTGATAGCTG	GCTGATCGTT	AATAGGTTAT	TAAACAACA	GCTTGTCTAT
94501	GTCCTCTCA	GTTATATACC	ATTAGTCTAT	ATGCAAGTTG	TCAATCTAT	TAACTCAAA
94561	CTATGCTAT	CACAAACTT	GCCATATAA	TTCCAGGTT	TCCCGCTT	CTCGAGTTT
94621	CATTCTCGAA	GGTCCCATG	TATATATAA	CTTATATTA	ATGATTTCT	ATGCTTTCT
94681	CTTGCTAATC	TTTTTTTTG	TTTTTTGAGA	CTGAGGCTTG	CTCTGTCAAC	CAGGCTGGAG
94741	TGCAATGGCG	CGATCTCGGC	TCACTGCAAC	CTCGGCTTCC	CAAGTTCAAG	CGATTCTACT
94801	GCTCGGCTT	CCGAGTAGC	TGGGACCA	GATACGTTGC	ACCATGCCCC	GCTAATTTT
94861	GTAATTTTAG	TAGAGACAGG	GTTTCAACCG	GTTGGCCAGG	ATGTTCTCA	TCTCTTACC
94921	TGTTGATCCG	CCGCTCGT	CCTGCAAG	TGCTCGGAT	ACAAGACGTA	GCCACTGCAC
94981	CCGACCAATC	TGCTTTT	TAGAGGGCC	TCAAGCATGA	ACTTACTGAT	GGGTAGAA
95041	AACAGAAAT	TCTTTTCC	TACAATATA	ACATTAATG	TATGTTATC	ATTCAGACA
95101	TTTTGTTTAC	CAATCTTAC	GAAATTTAT	CTTGTCAG	TCTATGAA	CCAATATGA
95161	AATCTTCTAT	AAGTAGAT	GTAATCTAT	TTTCTAGTAT	CCTTTAAAT	TAAATAAGA
95221	GATCTAATG	ATATTTTCA	TACTGCTAT	TCAATGTA	GAAGTAGATA	ATGCCCCCTT
95281	ATTCATGAC	CTTGGCTTT	TAAATAATTA	ACCATGTTA	GCATGAATTA	GCTTTTCAAT
95341	ATTCTCTAC	ACACAAGAT	GCTGTAAAGG	CAAAATAGA	GATAGGAATC	ATGCAATCAT
95401	TGATATACAT	ATTTTGATTT	TAAATACATG	TACCAAGTT	GCTCTCTGAA	GGTCTGTTA
95461	CACTCTCAC	AACAGGGTGT	TTTTTCTGA	CTTCCACAAA	TGCTCTTGA	CAGTGGGTGT
95521	GTTAGTCTGT	TCAATTTGCC	GACATGAACA	ATTAATCTC	ATTGTTGTTT	TATTTTAA
95581	GACAATATAT	GTTGAGACT	GCACATTTG	ATAATACAT	TATGTTGCTT	ATGTTTGA
95641	TACTCATGAT	TCTTGCCCAT	TTTCTTTTG	GATGTTGCTT	TATGATATGT	CAGTTACAT
95701	GATAGCTCA	TGTTATTA	GATTAATAG	TTTGAGGCT	TATGATATGT	CAAGGCTGA
95761	TCTAAGATTT	TTTTTTTTT	TTTTTTTGA	CGAGTTTCA	CATTGTTG	CAAGGCTGA
95821	GTCAATGGT	GCGATCTCG	CTCACCCG	CCTCCGCTC	CAGGTTTCA	GCAATTTCT
95881	TGCTCAGCC	TCCCAAGTAA	TGCAAGCTAC	TGCAAGGCT	CCTGCTCTCA	GGCTAATTT
95941	GTAATTTTAT	TAGAGATGAG	GTTCTCCAT	TGTTGCTGA	CTGCTCTCA	ACTGCGGAC
96001	TTGGCTTAA	AATCTACAT	CTTTTAA	TATTAACAT	ACCAATCTCC	CCAAACAT
96061	TACTAAGGA	TTGAGGCTG	AGTTAAGAA	GCTGATATTT	AGGATCTATC	TCCGGAAG
96121	TGAGACCTGG	TATATTAAGC	ATTTTCAAAA	TGAATCTTTG	GGCCAGGTA	GGTGTGCTAT
96181	GCTGTAAATC	CAAGCACTTT	GGAGAACCTA	GTCAAGGCA	TCACTTGA	TCACAATTC
96241	AGACCAAGCT	GAGCAACATG	CGAATAACA	GTCTCTACA	AAATTAACA	GGGCGTGG
96301	GCAATAGCTT	ATAGTTCCAG	CTACTATAGA	GGCTGAGGTG	GGAGGATTA	TTGAGGCCCG
96361	GAGCCAGAG	TTGCAAGCA	CCAAAGATCG	GCCGCCACAG	CCTGAGGAC	AGAATGAGAT
96421	ATGCCACCC	GCCCCCTAAA	AAAGCATGAC	TCAATTA	AAAAAATTT	AGCCCGTCC
96481	GCTGGCTCAC	GCTGTATC	GGAGGCGG	TCAACGAGTA	TCAACGAGTA	TCAACGAGTA
96541	AGGAGATGA	GACCATCTG	CTAGCACTTT	GGAGGCGG	TCAACGAGTA	TCAACGAGTA
96601	TAAATAGCTG	GGCGTGATG	TGGCGGCTG	TAGTCCGCTG	TAGTCCGCTG	TAGTCCGCTG
96661	GAGAATGGCG	TGAACGCGG	AGCGGAGG	TGAGTGAGC	TAGTCCGCTG	TAGTCCGCTG
96721	CCAAGCTGG	TGACAGAGCG	AGACTCCGTC	TCAAAAAA	AAAAAATTT	AAAAAATTT
96781	AAATATGA	TTTGAAGCA	GAAATTTAT	TGCTGATGT	TCTTCTAT	ATTTTGTG
96841	TGCTGCTCT	CTTCTTGT	TACAGAACTC	CAACACTTA	CCAAAGTGA	CTGTTGGTC
96901	AGGTTTCTG	TACTATAGTC	TCTTCTG	TGCTTACAG	GAAAGAGGTC	GAAAGAGGTC
96961	CCCATCCAG	CCCCAGAG	ATCCCCG	AGAAAGAT	CAGGGTGA	CAGGGTGA
97021	CCGAGTGA	AAGTAATG	AAGTTACTA	AGAAAGTAA	GTGTAAGT	GACAACTACT
97081	CCATAGACAG	AGCAGGACAT	TCCGAAAGT	AAGAGGAG	AGGCACTCAC	CCTAGGTACA
97141	ATACTTGTAT	ATATGGGGAG	ATGTGCTCTG	CTACAAAGTT	GTGATAAAG	ATTAATTTTC

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100441	GTTGTTTTTT	TTTTTTTTGA	GATGGAATTT	CACTCTTGTT	GTCCAGGCTG	GGGTGCAGTG
100501	GCACAGTCTC	AGCTCACTGC	AACCTCCGCC	TCCTGGGTTC	AAGGGATTCT	CCTGCCTCAG
100561	CCTCTTGAGC	AGCTGGGATT	GCAGCCATGC	GCCACCACAC	CCGGCTAATT	TTTGATTTTT
100621	TAGTAGAGAC	AGGATTCACC	ATGTTGCCCA	GGCTGGTCTC	GAACCTCTGA	CCTCAAGTGA
100681	TCCGCCAGCC	TCGGCCTACC	AAAGTGCTGG	GATTACAGGT	GTGAGACCTC	GCGCCCAGCC
100741	AAACTGTTTT	TTTATGGGTG	TATTTATACC	ACACACATTT	AATGCAATTA	TTGATATCTT
100801	AGGGCTTAAG	TTCATGAAGG	GTAGTGTGGG	AACCATAGTC	TCTTGGCCCA	CTAAATGTTT
100861	GCCAGAAATC	ACTGACAAGG	CAGATTGATT	AATAGGTGAA	AAGGCATTTT	ACCTATTGTT
100921	TAACGTGTCT	ATGTGGGAGC	ATTCAGAATT	AATTACCTAA	CTTCCCAATG	AGTTATAGAT
100981	GCTTATATAC	CATTTTTAGA	TCACAGAAAG	AATTGGGGCT	TAGATTCTGG	TAAAACAGGT
101041	TATGGGAGGC	AAAAGAGGTT	TGGCTTGCAA	AGGTGGCCTT	GTTAGGTAGG	TGAAGCCTCC
101101	CTCAGAAAGA	ACAGATGGTA	AATGTTTCTT	TTATGATTTT	TAAGTGTGAG	ACTCTCAGTC
101161	TCTCCTGGAT	CTGGGGAAAG	GTATAGAAAG	GTGAGGAGGC	ATGGCTGCAT	TAATGGAGAT
101221	TCTCTACAGA	TGTAAAATTT	TTCCCATTTA	AGGCAGCTTT	GCAAGCCCAT	TTCTGCCTGC
101281	TGGCCAAGCA	GCAGCCATTT	CAAAATATGT	CAAAAGAAATA	TATTTTGGGG	TAAAATATTT
101341	TGATTTCCCT	TAGACTGGTG	GCCTTATAAG	AAAAGGAAGA	GACACCTGAG	CTGACACACA
101401	TACCCTTGCT	CTCTCAACAT	GTTATGATGC	AGTAAGAAGG	CCCTCACCAG	ATACTAATTC
101461	CATGCCCTTA	GCTTCCAGG	TTCTAGAACA	GTAGGAAATA	AATTTCTTTT	CTTTAAAAGT
101521	TAGCCAGTCT	GTGGTATTCT	GTTATAGTAT	CACAAAATGG	ACTAAGTAAC	TATATTATGA
101581	TCATCTTACA	TGACTGATCC	CTCCTACATC	ATACACATAC	ACAGGCCACA	TTTGGACAT
101641	TGTTAGAGGT	TCCTCTACCC	AGTACAAATG	TACTACAAAT	TATATATGTA	TTTTTAAATT
101701	TTTGAGTATC	TTCAATAGTA	TATTTTCGTT	AACCTTTGTA	GTCAAAATGT	CATTATAACA
101761	TGTATTCAAT	ATGCATAATT	ATTAGTCAGA	TGTTTTACAT	TCTTCTTCA	TACTAAGTGA
101821	TATGGTTTGG	ATATTTGTCC	CCTCTAAATC	TCATGTTGAA	ATGTAATCTC	CAATGTTGGA
101881	AGTGAAAGCT	GGTGAAAGGT	TTTTGGATCG	TGAGGGTGAA	CCCCCTCATG	AGCGCACTCT
101941	TCAGGGTAAT	CAATGGGTTT	TTCTCTTGA	TTTCAAGAG	ATCTGGTTCT	TTAAAAGAGT
102001	GTGACACCTC	CCCCATCTCT	CTCGCTCAGC	TCTCACCATA	TGATATGCCT	ACTCCCTCTT
102061	CACCTTCCAC	CATGATTGGA	AGTTTCTCTG	GGACTTGCCA	GTAGCAGATG	CCTGCACCAC
102121	ACCTCCTGTA	CAGCCTGCAC	AACCGTGAGC	CAAAAAAAT	TACTTTTCTT	TATAAATTAG
102181	TCAGTTTCAG	GGATTCCCTT	ATAGTAATGC	AAGAACGAAC	TAACACACTA	AGTCTATTTT
102241	ATATTTACAG	AATAGCTCAA	TCTGAAGTAC	CCTTTTTCAA	CTTCACAGTA	GCTACTTGTA
102301	GCTAGTGGGC	ACTGATTTGG	AGCGTGTTCA	AGGGTGAATT	GTATTATGCA	ATTAACAGAT
102361	TTTTTTTATT	GTTTTTCGCA	ACCACGAGGC	ATAGATTGTC	TTACTTTCTC	TGCTCCTGGT
102421	GTTGGAGTTG	TTATTGGGAA	ACAACCTATT	TTCTCTTAT	ATTTATATGG	AATAAATAAC
102481	CCCCAATATT	TCCCTCCCCA	ATATCTGCCT	TTTGATGTT	TTTTGAAGGC	AAGTGCCTAG
102541	AATTTACTGT	TTTTGAAGCA	CTTACTGAAA	GGATTGCCAT	CAAGTTGTTT	TGCTAATAGT
102601	ACATGCCAGG	CGCTTGTTGG	TTTGCTTAAT	TCAAGGTAAC	TTGGATGAGA	AGAAGAGTTT
102661	TTCTCATCCA	TGGCTCAGTG	GAGTATAGAT	TACTGATATT	GTGACTGGAT	GTAATCCTGC
102721	TTTCTAGTCT	GAGTTTTTGA	AGCTACCCTT	AATCTTGGTT	TCAATTTTAT	CTAGCCCTGT
102781	ACATATCCAA	GGCTCTTTCC	AAAATGGTCT	ACGATTTGTT	TAGGAAGTTA	GAATAGCTGT
102841	ACTTTCTGAA	CCACGGTTCC	TGACATTTTC	TGGACTTCAA	ACACATCCAG	CATTTTATCG
102901	AAGTATTTAT	CCTTCCTACT	TGGCTGGCTT	CTTCCTTGCC	TTCAGGTCTG	AATTCAAATG
102961	ACATTCTCCT	GATGAAACTT	TCCATCCTTA	TTTCTATTCT	TTTTTCTTAT	CCCCCTTCTT
103021	TATTTTCTC	CACAGCACTC	ATCACTTATC	TCTACATTTT	CATTATGTAT	TTACCTTATT
103081	GTGCACCTCC	CACTACAAGA	CAAGTAGCAC	CGTAAGGAAA	CAGGTGTGCT	GCTTTTTTAC
103141	TGCTATGCTC	CCTGCACCTA	GAACACTCTC	TGGCACTTAG	CAGGTTTTTC	GTAAATATAT
103201	GCTGAACATA	TAATGCTGGA	TATACATCTC	CCTCATGAAC	TCTCTAAAT	CTTCTAATTT
103261	ACATTGATCA	ATCTTCTTTT	CCATGTGCTT	TTGTATGATT	TATTGTCTAA	AATCTTTATT
103321	TTGTATGCAG	AACGTGCACT	GCTATTTAAT	TTTCATGTAC	GTAAGTCTCT	CCTTCTCTGA
103381	GTATAATCTC	TTCAGGGCAC	TATCTGAGAT	AACCTTTTAA	CATCTCCATC	ATGAATCTTG
103441	TACCTTTTCA	AAGAAAATGA	GCCAGTGATT	ACTGATGTTT	ACGGCTATTG	TTGAGGGTGA
103501	AGATCATTAT	AATTTTGAAA	AGGGAAAGTT	AATATTGTGA	AGGGAAAGAT	AACACTAGAG
103561	TCAGAAGACT	TGGGAGAAGG	CAAAAAACAA	ACTAAAAATG	AGCACTTTTA	GTCTCCTGAC
103621	AGTTTCTCTG	AATCAAATCC	ATAGTTCGTG	GACAGCGTTG	GCTTAGAAGC	AGATTTTTTT

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106921	GTTTGGGGT	GAGTCTCCC	TCTCCCCAA	GCTGGAGTG	AGCGCGTGA	TACAGCTCA
106981	CTGTAACCTC	GAACTCGGG	TCAAGCGATC	CTCTTGACAG	CCTTCTGAGT	AGCTGGGATT
107041	ACAGGGGAGA	GCCGCCACGC	CCGGCTAAGA	GCATTTTCT	AATTGCCCCA	ACTTCTTATG
107101	CGACACCCAG	AAAAATACAA	TTTAAATAA	AGCGCATATG	CAAAATTTCC	TAATCGCTC
107161	CAATATTTCT	TGATTTCTTT	TGATTTCTTT	TTTAAATAA	AATGGAAGT	TTCCCGCGTG
107221	CTTGTGTGG	TTGTAATTT	TAAAGACTTC	GGAACCTTT	CCAGTACAG	ACTTGTCCAC
107281	AGTGGAATTA	GCACTAAGG	GGTTAAACA	ATGACGTCAG	AGTAGCTACG	GTAATGGGCA
107341	GGAGCCCTC	TTAATCTGCA	ACCAAGGACC	GAGATGGACC	AATCCAGAA	GGCGCGGGG
107401	ATTTTGAAT	TTTCTTGGGT	CCAATAGTTG	GTGGTGTGAC	TCTATAAAG	AAGAAGTAGT
107461	CTTCCCTTC	CTCCACAGAC	GTCTCTGAC	GCAAGCTTT	CTGGTGGCTC	GGCATGGCTC
107521	GTACTAACA	GACAGCTCGG	AAATCCACCG	GCGGTAAAGC	GCCACGCAAG	CAGCTGGCTA
107581	CCAAGGCTGC	TCCGAAGAGC	GCGCGCGGTA	CCGGCGCGGT	GAAAAAGCCT	CACCGTTACC
107641	GCCCGGGCAC	TGTGGCTCTG	GCGAGATCC	GCCGCTACCA	AAAGTCCAGC	GAGTGTCTGA
107701	TTCCGAAGCT	GCGGTTCCAG	CGCCTGGTGC	GAGAAATCCG	CCAAGACTTC	AAGACCGATC
107761	TTCCGCTTCA	GAGCTCTGCG	GTGATGGCGC	TGCAAGGAGC	TTGTGAGGCC	TACTTGGTAG
107821	GGCTCTTTGA	GGACACAAAC	CTTTGGCGCA	TCCATGTAA	GCGAGTGACT	ATTATGCCCA
107881	AAGACATCCA	GCTCGCTCGC	CGCATTCGCG	GAGAAAGAGC	GTAATGTAA	AGTTACTTTT
107941	TCATCAGTCT	TAAACCCCA	AGGCTCTTTT	CAGAAGCCAC	CACTATATCC	AACGAAAGTA
108001	GCTGTGATA	TTTTTGTG	TCTTAAACAG	AAATAATTT	TAAGGACCC	CCGGAAGCA
108061	TTAGACTATG	GTCTTAAAGT	TGATTAACAG	AAATAACGCT	TTGGTCACTC	TTGCAAGTGA
108121	GGTTATTTCT	GACCTTATTA	AGGTGTCTAT	GATTAAGCAT	TGTTAAACA	ACTTTGTAA
108181	TCAAGGCCCT	AGCTTGCTAT	GATTAAGCAT	TGTTAAACA	ACTTTGTAA	AGTAAGGAA
108241	AAATCTGGTA	AGTAGTTAAC	TGGCGCTTAC	TAGGCAATTT	TGCAAAAGCT	TGAAAGAGAT
108301	AGAAATTTGT	GTCTGGCGAG	TTCCAGTGTG	TTCCCTCAAA	TGCTTAGGAA	GATTTTCTCA
108361	GCTCAATACA	TAGTCCCTCA	GGTTTCTCA	TATATTTATAT	ATATATATAT	ATATATATAT
108421	ATATATATAT	ATATATATAT	AAATTCATTT	GGCTGTAAAC	ATTAACCTGA	AATTTATTTCT
108481	GGTGCAAAAT	GTGAGGCGAG	GATCTAACTG	GCTCTCATTT	TATCATAGG	TAGCTTACCA
108541	CTTTAAATCT	GTCAAGTCTGT	CGACCAAGCA	TAATTTAATC	CCTTATATAT	GAAATTTTAT
108601	ATGTGTGGCT	TTGCTGTAA	ATAGTCTATC	TGTTGCAAT	GCTTGTCTC	CTCTAGGACT
108661	ATGCAACCATG	ACATGCCACA	TTCTTTTCT	CAGTACTTCT	TGCCCTGTAGT	TATTAATAATC
108721	TAGAAATTTAC	AAGTTTAAAC	CATTTTCTTT	CTGTTGATCT	TGCTTTTCCG	TTTTGGAGGT
108781	TGGGGAATGA	GTAAGTTAG	AAAAATTTAG	GGATGGGAA	TACTGTAGG	AAACAAGAGT
108841	AATATTTACT	TTAAATTTT	TATATTTTGT	ATTTTATAT	CATATAGCTT	TTACATACAG
108901	TTTACAGAG	TAACTTTTGA	ACAACACAG	AATGTCCAAC	ATTAACCTA	CTAATTTCCAA
108961	AGACCTTGCC	TCACATTTCT	TTTACCAATA	AATATTTTCT	ACACCTTAA	TTCTTTCTTG
109021	GCCTACATCT	AGAAATGTA	CTGATGTACC	ATACTTAAAT	CGCCTGACCA	ACTGTCAACA
109081	ACAACAATC	ACACACACA	AAGATCAAA	TTGAATTTCA	TGGTTTACTT	AAATTCATTT
109141	GTGTTCCAGC	TTTAAATAG	GCAGTTTGTG	GTTTAAAG	TAATATTTG	ATTTTAAAAA
109201	TTATGAAAAAT	GAAATATGCA	GTTTGTGTTA	TGATTTGTTT	TTCTTGACTC	TTATACAAAGC
109261	GACTTAACCT	GGCATAGACA	TTTTGTATCC	ACAGACAGTA	TAGATATGTT	AGAGATGCCA
109321	ATGCACTTGG	TCTATGCCCA	GGTGACTTACT	CACAAGCTCT	GGGCCCAAGT	GAAAGTCAAG
109381	TATTTTCTTT	CCAGTTTATG	ATGTGCTTGA	TCTGATGTAT	AGCGCTTGAC	TTTTTATAT
109441	TTCTTTATCT	GTAAGAAACA	AATGTGTGGA	AGGTGATGGG	TCTGACGAAT	AGCTTAAAG
109501	AATAAAGTTA	CATTAAGTCT	TGAGGATCAG	ATGACACAGG	GGTGTAGCT	CAGTCCAGCT
109561	ATTTTCCACT	CCCTCAGCTA	CATTTCTTGC	CCCCCTCTCA	ACAGAACAA	GATTCGTCTG
109621	TAACCTTCTCA	TTGACAGTTG	ATAATTTAAA	ATTAACGAAT	GGATGAATTT	CTCATTTGTG
109681	AAAGAAAAAT	TATTGAGCAT	TTGTATTTG	TGAGTAGTGC	AAACAATTTA	ATATATATAT
109741	AAGAACTAT	TGTTTGTAT	TAGAGGAGTA	ATTAGGAGTA	GATTTGGAGG	AAAAAGGGG
109801	TGTTGTGCTG	AGAATATACC	ATCCAAAAAT	AGACCACTGT	GGATTCAGGA	TTCTTTTGAG
109861	CTAAAAAGGAC	TTCAAAAACA	GCATTCAGAA	AGGGAATTTCT	TCTTAACTTT	TCTTTCTGAA
109921	AACAGGAGAT	AAAAAGTTCCA	ATGTGAAAA	TGCTCTGCTT	GTAACCAAGT	AAAAAGACATA
109981	TTCTTACGCC	CAGAGGACATA	GATGAGATTA	TTCTGACATA	ACACAGCAGG	GAGTCAATAGC
110041	CGAGAGACTT	CTATACACAA	ACAAACCTTG	TTAAAAATAT	CATATATCTC	TTTAACTCC
110101	TCATATGGTT	TACTTTCCCA	CAATTTGCTC	TCTTAACTT	AATGTGAAAG	CATTTAGCTT

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113401	GCCCCCTCTG	ATGTAAGATT	CTCAGATGAC	TTGCATCTTC	ACTGTACCTG	TCAACCCAAT
113461	AGTCTTCTAT	TCCTGCCTTA	AATTGTAAAT	TCCAAAACCTG	ATTTAATTGT	GAAAGTTTCA
113521	AACTGTACGA	CCTAGGAAGT	GTCAAAGTTA	GGTGACCAGA	TTTTTAGAAG	TCAGCCAAAT
113581	ATTCAGCATC	TTTGATTTAG	TAACAAATAT	ATTGATGGCT	ACTTCAGCAA	AAAAAATCAA
113641	CTTTGTTTTT	TGGTTACTTT	GCTAACAAGC	TTCTCCTGAC	AGGAGGATAT	AGTGAATAGG
113701	CAGTTGAATA	AGTGAGTTCG	GGTGAGAGGT	CTGAGCTGGA	GATAAAAATG	TGTGAGTCAT
113761	CAGCAGATAA	ATAAATGCTG	AGACCAGATG	AGATGGCTAA	AAACTGAAAC	ATAATGTAGT
113821	GCAGCATTGT	TTGTAATAGT	AAATGAGTGG	CAACTGTAAA	GTTTTCATCA	GAAAGGACTA
113881	GAGTGATCTA	TACATCCATA	AAATAGAGTA	TTTCTCTACA	CAGCCCTACT	AAAGAATGAG
113941	AAAGCTGTAC	TCCACTACAT	ACTCTGGTGT	ACTCTGGCTC	AGTCTTGGA	CTCCTCTTTT
114001	CTTGGCTAAC	TCAACTGGCC	TCACCACTTA	CATGCTCTGT	GCTCTGTCAA	ATAGTTTGTT
114061	CAACAGAACA	CCACGGCCTA	GCTGTAAGTG	CCACGTAAAC	TTCTAGCAAT	GCCAAAGCCT
114121	GTGATAGTGG	CAGCTTCGGG	CTGTTTCTCA	TTCCCGGGAT	GCCTAACCCAC	CTCTCCAAAT
114181	TCTATCAGTT	TGCTTCCACC	CACCTCAAGC	TTCAGAACGA	AACATAGAGC	TTAAGAAATA
114241	TAGGCCCGGC	AAGGTGGCTC	ACGCCTGTAA	TCCCGGCACT	TTGGAAAGCT	GAGCCTGGTG
114301	GATCACCTGG	GGTCAGGGGT	TCGAGACCAG	CCTGGCCAAT	ATTGTGAAAC	CCCGTCTCTA
114361	CTAAAAAATA	AAAAAATTA	GCTGGGCATG	GTTGCGGGCG	ACTGTAATCC	AAGCTACTCG
114421	GGAGGGTGAG	ACAGGAGAAT	AGCTTGAAC	CGGGAGGCAG	AAGTTGCAGT	GAGTTGAGAT
114481	CGCGCTATTA	CACCTAGGCC	TGGGAGACAA	GAGTGAAACT	GTGTCTCTAA	ATAAGTGTTC
114541	GCAATTATAA	ACCATCTCCC	TGACCTTAAA	TCTCTAGACT	CATATACAAC	TGCATATTTG
114601	ATGTATCTAA	TTGAATAATG	GGCATCTCGA	ACTTGTCCAA	AATATGTTTA	TACGTAAACA
114661	CCAAGTCTGT	TCTTCTCTCT	ATATTTGTCA	TGTCATCAA	TAGAAGTCCA	TTCTTCAAGC
114721	AGCTTGGGCC	AGGAATTGTG	CAATATTGTT	TGTCCTGAGC	TTCTTACAAC	TTTCACCCAA
114781	TGCAGTCAGC	TCTGTTGAAA	ATCAATCAGA	ATACCTTTCA	TTGTTTTCTT	TGCTGCTTCT
114841	CTAGGAGCAA	GCTGCCATGG	CGGTTGTCT	GAATGACCAC	AGTGACCCCA	AACTGGTCTT
114901	TGTTTTCACT	TTTAATCCCC	CTGTACATCA	GTTTTTCTCT	ATCCAGACTT	AACAGTGATC
114961	CTTTTTGAAG	GTATTATGTC	CACTGTCTGC	TGAAAAGATT	CCACTGGCTT	TCCATCAGCT
115021	TCATAATAAA	AACCAGCATC	CTTATCATAG	CCTACAAGTA	AGATGACCAA	CCATTACAGT
115081	TTGCCTGACT	CTCAGGGGTT	TCTCAGGGTG	TAAGACTTAC	AGTGCTGAAA	CTTAGAAAGT
115141	TCCAAGCAAA	CTAGGATGAG	CTGCTCAACC	TACTAGATCT	GTAAGTCTGGC	TACCTCTCTGA
115201	CCTCATTCTC	TTCGCAGTTC	TTTCTCTTCA	CTGACCTTGC	TGTTTCTGGA	ATGGACCAAG
115261	CATTTCACGC	ATCAGCACCT	TTATATCTAT	TCTTTCTCCC	TAGAAGGGTC	TTGTCCTGGA
115321	TATCTGAATG	GCTCTAGATC	TCATTTTATT	CAAGCCTCTC	CTCAAATACC	AACCTTAAGA
115381	AAGAGACCTC	CCATAATCAT	CCCTTGTAATA	ATAAGCTTTT	CTGCTCATTT	AGCATATATA
115441	TATATAGTTG	ACTATCCTCA	ATAGCATATA	TATATAACAT	TTCCCCACCT	AGAATTATAT
115501	ATGTAATAAT	ATATTTAACA	AAAAATACAT	ATAACTAGAT	ATATTTTATT	TTGTGTTTGT
115561	TCTCTCTCCC	CCAAGTGGAA	TATATTTTTT	GAAGGTAGGG	ACTTTGTTTT	GTCCCAGAAG
115621	TATCCCTAGC	ACCTTGAACA	GGGCTGACGT	TTAACAGGTA	GTTTATGGAG	GTTTGTGTA
115681	TGAAAGGATG	TGTGAATTTT	CTATGTAAGT	CTCCAGGCTC	TCCACTAAGC	CCACCAGAAT
115741	GCTAACACAA	TCAATTCCCC	ATCTCATTCC	TTGACCTGCC	ACTGCCTGAA	GCAATCAGCG
115801	TGCAGTTTCT	CTTTAGAAAA	TCTGGGGGAT	AGTCTAGGGG	TTGCAAATTA	AGCAACATTA
115861	TCTTTGTTCT	GAACAAGGAC	TGCATGAGTG	TTAGGACTGA	AGAAGGCCCA	AGGTGGTGGT
115921	GGGTATGCCT	AAGATGAGTA	TGACATATCA	GCAATGCTAT	GAACATAGCA	ATGCTATGAA
115981	AGGCCAGGCA	AAACGTAACA	GGAGCTAGTC	GTGGCTTATT	GTTACAACGA	CTATACCTCC
116041	CATATGGGTA	ATCGATATCC	ACACACCCCT	CTACATTGAC	TCTGGAATTC	AGGAAAGGGA
116101	ATTAAAATTT	TCTAACTTAT	GTACCCCAAT	GATTTCAACA	ATATCTGGCA	TATGAGATCA
116161	ATAAATATCT	TTAAAATACC	AACTAAGAAA	GACATAAAAT	GACCCACCTT	CCATACCAGG
116221	CTCATTTTGT	CTCCTCTGAT	TCTGAAACT	ATCCAGAATG	CAGCTATGAA	TTCTCTCCAT
116281	TGTCAGTTTT	AAATTAAGCC	AAGCTGGGTA	CTTGTGTAAT	TCCTCAAGAA	ATCCTGGATG
116341	AAAACTGTCA	GGTGGAAAAC	AGGACCTCAA	AATAAAGAGA	CATCCATCAC	TGAAGCTAAC
116401	ATCGTGAGGC	TGAAATCAGT	CCTATAACAA	TGGTACCAAA	AAGAGCACAA	TGAGAGGCAT
116461	TTGTGAATAT	TTACTCAGAT	GAGAGTAAGA	TATTTCCCTA	TCAGCTAACC	TGAAGTTCAC
116521	ATCCCTTTTC	CAGCTGAGTT	CTGAAGCTAG	ATGTACTTAA	CTGGAACACA	TAAGTGCATC
116581	AGGAACATCC	TTTAAACTTA	TGGCTACAAT	GGCTTGACTG	GACAAACCCC	AGGCTTCCAG

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119881	GGCGTTCTC	CAGCAGTACC	GCCAGGTACC	ACCAAGTGGG	AGTTGTTCTC	CTTGCGGAGG
119941	AGGAGGTGG	CTGGGCCCA	GAGAAACTGG	ATAGTGGTTC	GCAAGGAACA	TAATTTAGCA
120001	TTGCCAAGAG	CTAATGGCAAT	CATTTTGA	ATCTCAAAAC	ACTGAATAAGT	GGAATTTGAC
120061	CTTTTAAAT	TCACAAAGAGA	CAGGCCACAT	TCTATCTTTT	GATTGGTTTA	GGCTATTTTC
120121	TTGAACAGCC	ATTAGAAAG	CAGATCTATC	ATCCTTCAT	TGCATGGAGC	GTTCCCATTT
120181	TATTTGAAC	CAGTTTAAAC	CAATAGAA	AAGGAGGCA	GAAACCATTA	TTTAAAGTGG
120241	AACTCCCTGA	ATCAGATAT	TAGAGATAT	TGCTTTTCA	AAGTTGCGT	TTTTCAGATA
120301	CCTCGCTTAT	TACAGCTAAG	AAGGTATAT	TGCTTTTCA	AAGTTGCGT	TTTTCAGATA
120361	TTCCAATTTT	GTAATACCTGT	GTTTCAATAC	TGCTTTTCA	AAGGTATAT	TGCTTTTCA
120421	TCCAACCGTT	ATTTTCAAA	TTTTCAGAA	TGCTTTTCA	AAGGTATAT	TGCTTTTCA
120481	CAATAAATG	GACGCTAGGA	AGCAGTGGT	AAGAAAGG	GTAAGATATG	TATGCTGGAC
120541	CACCTCCATTA	TTTGGTTGG	ACGTTGTTG	AAGAAAGG	GTAAGATATG	TATGCTGGAC
120601	GCATGGTTCC	GACTTATTTG	AAACCTACCA	CAGCAGGAGC	GGAATAAGAG	CCGATTAACC
120661	TCAGTCTCTG	CTGTGCTGTG	CTAGGGGGT	ATCCAGAAAT	GGAATTTAG	AGTGGATGTC
120721	GATTTAATAG	TTTTTTATTC	TCCCATTAG	TGAGTCTCTG	ATTGGCAATG	TGAGATTCGT
120781	TTAGCTTAT	GATACCTTGA	ATGCACTTA	ACAGCCACAA	ACAAGTTAA	GGGTTGTTAC
120841	CATAAAATCT	TATCCCCAGG	GTGCTCTG	ATTATACAC	CGTGTTCGT	TTCACTATTA
120901	GTGCACTTA	CTCCCCAGCA	GAAATGCTGT	CAGGAAACCG	GTTTCGTGA	CCCACTATTT
120961	AACGCCCTTC	GCAAGCTTGT	GCGTGTGCT	ACATGGAA	GAGTTTGA	ACCTTAATAC
121021	CATGTCTATG	TGCGCTGAT	GGTGTGCT	ACATGGAA	GAGTTTGA	ACCTTAATAC
121081	CAATTTGGGG	CATGTGTAT	GATGAAAG	GCATTTGGA	ATTCCTGAA	TGCATTTCCAC
121141	ATTGGACTGT	GGAATAAGT	TGCAGTGA	GAAACGTTTC	CACATTTGA	GTTTGAATAT
121201	TAATTTGAGC	GTTTGTGAAT	TCTGGTGTG	TCTACGATTC	ATTCCTGTT	GACGTGAAG
121261	GTATTTCCGGA	GACACATCCG	TCTAAACAT	TGCCAGAA	TGTAATAGAG	TTGATGACAA
121321	CTGGCCCTTA	CACGGCCCTTA	AACCTCCGCA	TTTCTCTCCC	TCCGCACTA	TTCAAAACAC
121381	TGTAATTTAC	ATTTCTTGA	AATTAAC	TACATCTCT	GGCAACGGAC	CTCTAAAT
121441	TTCTAATAA	ACTCTCGGA	TGCTTGTG	ACTGCAATTT	TAAACCCGCC	CTCTCAACC
121501	TACTCCCTTA	AAAAAGAGCT	CTTTTGA	GAGAAAGCGT	ACCCTCTGAT	GTTACTGGGC
121561	GGCAGTCTGC	CTACAAATTC	CTTCAATG	AGGCAACAG	AGCGGCTTT	TCTGTGTGTT
121621	TGCTTGGGCT	GAGGGGAGCA	GGACCATAG	CCCTAGAGG	CCCAAGCTG	CTTCTGAGAC
121681	TGGGCGAAAC	CCTCGGAGC	CGCAAGGGG	CGCTAGGGG	CGAGGGGGG	GCACCTGACG
121741	GCACCAATCA	CGCGCGAGT	CCACCTATA	AATAGGCTG	GTTGGGCTC	TTTTTTCCGA
121801	TCCTGCTTC	TCAAGTTAT	ACCACTTAT	TGCTGTGCT	GTGTTGCTCA	CCATGCTGA
121861	AACAGTGCCT	CCGCGCCCGG	CGCTTCTG	TGCTCTGAG	AAACCTTTAG	CTGGCAAGAA
121921	GGCAAGAA	CCTGCTAAG	CTGAGCAG	CTCCAAGAA	AAACCCGCTG	GCCTTTCGT
121981	GTCAAGAGCT	ATCGTGCAG	CTGCTTCTC	CTCTAAGAG	CGTGGTGGT	TGTCGTTGG
122041	AGCTCTTAA	AAGCGCTG	CGCGCGCAG	CTACGACGT	GAGAAAGACA	ACAAGCCGCT
122101	TAAAGCTGG	ATTAAGAGC	TGCTAAGCA	GGGAACGTT	GTGCAAGACA	AGGTTAACCG
122161	AGCTCGGGT	TCCTTCAAG	CTAACAAAG	GGCTCTCC	GTGAAACA	AGCCCGGCG
122221	CTCAAGAGT	GCTACAA	CTAAGGCA	GGGTGCTC	AAAAAGCTCA	AAAAAGGCG
122281	GGGGCTAGC	AAAAAGAGC	TCAGAGCT	GAAAAAGCT	AAAAAGCTG	CGGCAACAG
122341	GAAATCTCC	AAGAAATCCA	AAAAACCCA	AACTGTAA	CCCAAGAA	TAGCTAAAG
122401	CCCTGCTAA	GCTAAGGCT	TAAGAGGCT	GGCGGCTCA	GCTAAGGCT	CGAAGCCAA
122461	GACTGCCAA	CCCAAGAA	CGCAACCCA	GAAAAAGTAA	ATTAGTTAG	AAGTTTCTC
122521	TAGTAACCA	ACGGCTCTT	TAAAGAGCCA	CTACGCAAT	CAGGAAAG	TATGTTAG
122581	ACAGATGAA	TCCCCCAAG	AAATGCAAC	CGCCCTCAAT	TATATTTAG	TCACTTGGAG
122641	AGTCGATAG	ACTTAAACAT	AGCTCATCT	AGTAAGAAAT	TACTACTCA	TCTATCAAG
122701	ATAGCAAGT	GAAATCAAA	GCACCGAGT	AAAAATCGAGT	TTTAAAGTCA	CCTGGGTTT
122761	GTAGCCCGGA	AGTCCCGCGT	CTACGAGCT	CAAGCTAAT	AGTCAATAAC	GTAATGAAC
122821	AAGTTGAAG	CCAGTCCCA	GGCTTGAAG	TTTTTATAT	ACAAGGTTAA	AGTGGGATA
122881	TTGCGTTTG	GGTCAATAT	TGCTAAAGT	GCATTTCCG	AAATTTGGT	GTCTTAAGAA
122941	ATGCTTCTG	GATAGTTGG	AAAAATATG	GCTTAAACAC	GGCTTCTCA	CAGGAGTGG
123001	TAGCAAGCT	TCTGTCTTG	GGAAGGAGG	TGACCTGCT	GGCGTGGCT	GGCGCCACG
123061	TGCGGTCTC	TGAAGGCC	GCCAAGTAA	CCTAGCTCG	TTGCTTTCTG	CAGCGGCATC

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126361	ACTCCAGAAC	ATTAGGTTTG	AATAGATTCA	TCTGTGTTGC	TGTGTATAAC	TTTAATTCAT
126421	TTTTATTGTT	ATGTAATATT	CCATGTTATG	AGTGCAACAA	TTTAGGTGTC	TACTGTTGAT
126481	GCATATTTGC	TTCCCTTTTT	CAGCTAATAT	AAACAATACC	GTGAATATTC	CTGTGTATGT
126541	GTCTTGGTAT	ATATAGGAAT	ACATATTTTG	TTTGTATACC	TAGGAGAGGA	ATTGTTGGGT
126601	CAAATGCTAA	ACTCTTTTGT	AAAGTGGTGA	TATTAGGTTT	ACATGCGATG	AAATGAAAAT
126661	TAAAACCACA	GTTATAAACA	GCATGGATGA	ACCTCACAAA	CCTAATGTTG	ATGGAATCTA
126721	GCTGGGAATT	CCTGTTCTTC	CATATACTTC	CCAATATTTT	TTTCCAATTA	AAATTGTTAA
126781	TCTTTTGAAG	ATGTTATCCA	TTGTGGCAGA	TGTGCAGTAT	TATCTCATT	TGGTTTTATT
126841	TTACATCTTT	TGCCCATTTT	TTCTTAATTG	GATTGTATAT	CAGTCGACTT	GGGCTGCCAT
126901	AACAAAAATA	CTAGACTAGG	TAGCTTGAAC	AAAAGGAATT	TATTACCTCA	CAGTCTATAA
126961	GGCCAGGCCA	GAAATCCTAA	ATTGAGGTGC	CAAGAGATTC	AGTTTCTAGT	GAGGGCTCTC
127021	TTATTGACCT	GAAGATAGTT	GCTGTCTTAG	ATTGTTTGGT	GCTGAACAGA	ATACCAGAGA
127081	CCAAATAATT	TATAAAGAAT	ACAGATTAT	TTCTTACAAT	TCTGGTGGCT	ATAAAGCCTA
127141	TGGTCGAGGG	GCCCACCTCT	GGCAAGGGCC	TTCTTACTGT	TATGGCAGAT	GTGAGATGTC
127201	ATCTCATATT	CAAACCACAG	CAGTCGCCTT	TTGTGTCCTC	ATGTGGCCTC	TTCATATGCC
127261	CATAAAATGA	CCTCATGTCT	CTTCCTTTTC	TTATAAGGAC	ACCAGATCTA	TCAGACTACT
127321	GGCCTACTCT	TATGACCTCA	TTTAACCTTA	AATATCTCCA	TAAAGTCCCA	AAATCCCTAT
127381	CTCCAAATAT	AGGCACATTG	GGTGTAGAG	TTTCAACATC	AATTTTGGGG	GAACACAATT
127441	TAGGCCAAAA	AGATTGTGTT	TTTTCTTGTT	GGTTAAGAT	AGCTGCTTTT	TTGTCCTTTT
127501	TGTCCTTTCT	TTTTTTTTGA	GGTGGACTCT	TGCTGTGTCA	CCCGGGTTGG	AGTGCAGTGG
127561	CGCTGTCTCA	GCTCACTGCA	ACCTCCACCT	CCTGGGTTC	AGAAATTCTC	CTCCTCCCAA
127621	GTAGCTGGGA	CTACAGGTGC	ATACCACCGC	GCCCTGCTAA	TTTTTGATT	TTTGATAGAG
127681	ACGGGGTTTC	ACCATGTTGG	CCAGGCTGGT	CTCAAACTCC	TGACCTCAGG	TGATCCACCT
127741	GCCTCGGCCT	CCCAAAATGC	TGAGATTACA	GGTGTAGCC	ACCAAACCTG	GCCTGTCTTT
127801	TCTGTTTTAA	GTTTTTAAAT	TTTGCTCACG	AACCCTTTAT	CCATTTTATG	TGTTGCAGGT
127861	ATTCCTCTG	TAACCTGTCT	TCACTCTGTC	AGAGGCTGGA	GTGCAGTGGC	ACAATCACAG
127921	CTCACTGCAG	CCTCCACCTC	CCAGGATCAA	GCGATCCTCC	CATCTTATCC	TCCTTAGTAG
127981	GTGGGACTAC	ATGTGCAGGC	CACCATGCCC	AGCTAATCTT	TGTATTTTTT	TGTAGAGATG
128041	GTGCTGTTGC	CCAAGTTGGT	CTCAAACTCC	TGAGCTCAAG	CAATCCATCA	ACCTTGGCCT
128101	CCCAAAGTGT	TGGGACTAGA	GGTGTGAGCC	ACCACTGCAC	CCAGCCAATG	ATATCTCATG
128161	ATGCATTAAA	GTCATTAAAT	TAGTGTACTC	AAATTAAGCA	CACTGCCCTT	TTATGCACAA
128221	CCTTTTTTGT	ATCTTATTTA	AAAAATCATT	TTCTATTTCA	AGGTCAATGAA	GATCTTATTT
128281	TATAATACCT	TCTTGTGAAA	TTAGTTCTCA	AGACTACCCT	CACTTCTAAC	ACCAATTATA
128341	AGTTGGGAGG	TCTGTGGTTC	CCAATCAACC	TTAGGTTAGT	AATTTGCTAA	AAGGACTCAC
128401	AGAAGTTGCT	GAAGCTGTTA	CCCTCATGGT	TACAATTTAT	TATAGGATAT	ATAGCTTATT
128461	ATGTCATTCC	AATGCAATGT	AAAATTATAC	AACACTTTTT	AAAAAGATTT	TAGCATTTGA
128521	CCCAACAATT	TCACTCTGAG	GTATACAAAC	AGCAGATATG	TGTGCACATA	TATACCAAGA
128581	CACATACACA	GCAAAATTCA	TTGTTTGTA	TAGTTGAAAA	GGGGAAACAA	CTCAAGGAAT
128641	AAAGATTAAA	ATCAGCTGAG	AAAAGAAACA	CACAAGGCAG	TATTATGGAT	CGAATTGTAT
128701	GCAGATCTCC	CTTGCCCCCA	GAAGATATGT	TTAAAGTCCC	AACTCCCAGT	ACCTCAGAAT
128761	TGTGGCCTTA	TTTGAAATA	GGATAGTTGC	AGATATAATT	AGTTAAGATG	AGGTTATAGT
128821	ACAGTATGAT	GGGCTGGTGA	CTTAGAAGAA	GTAGTATATA	TATATTTTTT	AATAGAACTA
128881	GTATTCTTCT	AAGGTGGTCA	CGTGAAGACA	GACACACACA	GGCAGAGACT	GCGGTATATG
128941	AGCTGCAGGT	CAAGGAATGT	CAAAGTTGTC	CAGCAAGTAC	GAGAAGCTAG	GAAGAGTCAA
129001	GGAAGGATTT	TCCTACAGGC	TTCAGTGGA	GCATAGATCT	AATGATACCT	TCATGTCAGA
129061	TTTCTAGCTT	CCAGAACTAC	AAGAGAATAT	ATTTGTTGTT	TTAAGCCACC	CTAGCTTCTA
129121	GCTCTTTGTT	ACAGCAGCCC	TAGGAAACTA	ATATAGGCAC	AATCCAGGCA	AGTTCCAAAT
129181	ATGAGCTTCC	AGTTGTCCTC	TCCCAGTAAT	ATGAACAGTA	TTACTTTCCC	AGCATTAATG
129241	TGTGACAATA	CACATGACGT	ACAGAGCAGT	CCCCACTTAT	GCACAAAACA	TATGTTCCAG
129301	GACCTCCAGT	GGATGTCTGA	AACCATGGAT	AGTACTGAAC	TCTATATAGC	TGTTTTTTCC
129361	TATACAGACA	CAGCTATGAT	AAGGCTTAAT	TTATAAATTA	GGCACAGTAA	GAGATTAATA
129421	ACAATAAATT	AGAATAATTG	TTAAGAATAT	ACTGTATAAA	AGTTAGGTGA	ATGTTTATTT
129481	CTGAAATTTA	CCGTTTATTA	TTTTTGGACT	GCAGTAGACC	ACAGGAACATA	AAACCATGTA
129541	GAAACCGTAT	ACAAGAGAAC	TGTATTTTAC	CCGAGCCTCA	GTGTGCAGTT	TTAATGGCCT

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132841	TAAATAATGG	AGCCAGAGGA	ATACCAAGGG	CAGAAAGCCTC	ACTATAAGT	GTTGCACCTG
132901	TCAGAGGTCA	GGAGGTGTAA	CTGACTCTCC	CACAGTGTGG	CTTTGGAAAG	GAGAAAGTCAG
132961	CAGCTGCATG	GAGATTTGGG	AGAGGGAAAG	CTTTTAA	TTTGGAAAG	TTGGAAAG
133021	CTGAGCTATG	TGTAAATAGA	ATAAGACAGG	AAGAGTGTAG	ACACAGGAA	GAGGGGACAG
133081	AAAAACAAGT	GCACAGTTAT	CTAAGGGAAA	CAATGGGATC	AAGCTGCAG	TATATAAAT
133141	TGCTTGATA	GAAAGATCCT	TGATCTGTGG	TATTCAGTGT	TGGTCCAAA	CCACATCC
133201	TGCTTGACT	GTCCTGACT	TGCTCTGTGG	CCAGAAAGCC	CAGCTTCTAC	AGATAGCAT
133261	AGCTGGCAG	CCCTGCGCTC	TGGCAAGAG	TGAGTTGGC	CCCGGACG	AGATAGCAT
133321	ATGAGATGG	CAGAAGAGAG	AGAGGTAGT	GTACTTATTC	CCTGCATCAG	CCCGCTGCT
133381	GGTGGGACG	TCTTCTCTCA	CAGTCCGAG	TCTGGCCTAG	CTCTGGTAC	AGGTTCCCT
133441	CCATGGCCTC	TTCAAGTTTA	AAGGTGTGTG	TGTCAAGGTA	TAACTGGGAG	CTAGAAATGG
133501	CACGTGAAAT	GAAACAAAT	TTTATGGGA	ATGGTGTGTA	ACTAGTTATA	AGAGGACTGA
133561	AAATGGAAAT	GTGAAACAA	CGTATCAGAG	ATAAGTAAAT	CAGAAAGCAA	CTACCACTC
133621	CAGGTTAGG	AGAAACAAGG	AAAGATCTT	TGAAGAGATC	CCCAAGAACTG	GGACCTCTGA
133681	GGAGTGTATG	CTGAGCAACT	GATGATGATA	TGTCTGTAGA	TAGAAGCATG	ATGAGGCTGA
133741	TTTAGAGGC	ATGGAAGATC	TCCAAGATGA	AGCCAAGTGC	TGTTACTGGA	TTCAACTGCC
133801	ACTGCCAGGT	TGAAGAAACC	ATTCTGTGAG	GATGTCAACA	AACAAGTGG	GAAATCTTTT
133861	CACATCCCTC	CAGCCCTCTA	GTCCTCTCTC	AGTGTCTCT	ATGGTGTCT	TTTGGGGAGG
133921	TGGCTGACAA	AGCGGTATGG	GAAAGACTTA	AAGAGACTTA	ATCTTCATTA	CCAGCAGACG
133981	GTGACACTGG	ATCACTACTG	TGCTGTGATC	TGGCTGCTCT	CATATCCCTC	GTTCTTCCCA
134041	TAGCCCTGTG	CACAACCTTG	TAGATATCCC	TTCATATAT	GCCCTTCATA	TATTCCTTTG
134101	GTTAACTTT	TCTGTGTTGA	ATCCTAATAT	GGCACTCCTC	CATTTTCAG	GACCAAAAGA
134161	GATATAAGA	TTATCTTTTA	CCAAAAAAAC	GACAAAAAAC	TGATCTAAT	CCTGATTTGA
134221	TCATATACCA	ATCTATACAT	GTATCAAAAT	ATCAACATAGT	ACCCCAATTA	TATATACAA
134281	TGTGTCCATT	AAATATAAAA	ATTAAGAAAG	AGATGGTAA	TATAGCTCTG	TCAAGGCACTG
134341	GAGGTTTAC	CACGATGGCT	GTTATTTCCC	CCATGAAGGG	GGAGTGAAGG	GAGCAAGCTGA
134401	AAGTAGTGC	TTATAGGGGT	ATAAGGGGGC	TCAAGGCTTT	GAGAGAGGAG	AATGTCTGAA
134461	AGAAGTCCCA	AATAGCATGC	AGGTCCCATG	GGGGCAGAGC	CTCTGCTCAT	TCAACAGTGC
134521	CTCTCAATA	TCTACACTTA	AGCCTTAACA	AAAAGTGTG	CTTAATTAAGT	ATTGCTGAG
134581	TATGTAAAGT	GGAACAGAA	CAATCTGGC	AAACTTTGTA	GGACTGGTGG	GCAATTAAGA
134641	TCAGTCAAGT	AAAATCTGTG	GATATAAAT	TATATTTGAT	AAAAATTTCA	AGGTTAAGTG
134701	TTTTCTTCA	GTATGCTCA	AGCATGCTC	AGCCATGCTC	AACTCTCTG	TAGCCACAGA
134761	AAAAAGTTA	CCATATATCG	AGCTGTGTCT	GTGTCTGAAT	AATGAAGA	CCATGATGCA
134821	AGGAAGTTG	AGACACAGAA	ACAAGTGTGG	AAGTAATGGG	TAAATGAAGC	ATGCTAACAG
134881	GGAAAGGAA	GAAAGTGGCA	TAGAAAGAA	CAGAAGATCTG	TGGTCTTATG	TCCCTTGAGC
134941	ATATTCACAT	GTTAAAGCTA	ATTCAGTTT	CAATCATCAT	TAAAAATTTG	TTCCTAATA
135001	TATGGCCATT	ATTTCCACA	ACCACTAA	AACTTTATTA	CCTCTGGCAA	GTGACTATGC
135061	AAGTAACATA	GAGCAAAAT	ATCCAACT	ACCATTTGAG	CTATCAATTT	AGGAAGTTC
135121	ATCTGGCTAT	AATCTAAGTG	ACCCTCCACT	GAAATGTCAGT	ATCTTTGCAT	ATGTGATTTA
135181	AACTGGGCT	TTCCGAAAC	CATGAACCTG	TCTGTCTTG	AATATCCAGA	TTGAAGGAAA
135241	TAACTGAGT	AGTTACGAGT	CTGAAGCTA	GAAAGATGGA	AACCCCATTT	GCTCATTCAG
135301	AAGCCTTGA	GCTTGGGCG	TGCTCAACG	GGACAGAGG	GCTCTTCTCT	GCTCTTCTCT
135361	CCCATCTGA	TAGTCTGATA	ACTAAGAAAG	CCGCCCACT	TATCTCCAA	GAAAGGACCA
135421	TCTTAGTTCC	TCTTGAATG	TTCAATTTA	GAAATTTATG	TTTGTCAATA	ATTTAACCCC
135481	TTAATGGGCT	TGCCTTGTGG	TCCATACCA	TGAAGTCAAG	GCTTGCCCTG	AAGAAATTTG
135541	AGGGCCATT	CATCTTCCAG	GCAAGTGAAGT	TCAAGTACTT	TTTAAATTTG	CCTGTGAAT
135601	CTGTATTTGA	AAAGAAAGAA	TCAATTTGGT	GTGGTAGCTC	ACACCTGTAA	TCCCTAGGCT
135661	TTGGAGGCT	GAGGTGGAG	GATCATTTGA	TGCCAGAGG	ACCACTTGAG	ACCACTTGAG
135721	GTAAACATAGC	AAGACCTCTG	CTTAGAAAA	AAAAATACA	ATAAATAAA	TACAATAAA
135781	ATAAAGCAA	AAAGAAAGAG	TCCATCTTAG	GGAAGACTG	TAACTACTCA	CTGAGGCTTA
135841	CCTTACATA	GTTCAAGATC	AATATATA	AAACACTTTT	GTGCAGATT	AATAGGATTA
135901	TTTAAATCCC	CATCATCTCT	CTGAGTTTCC	AGTCAAGTTT	TCTGCATGTA	GACACCCCTC
135961	TCAGGCCCC	CATTGTCTCT	CCTCCTATAG	CTCCCAAC	AAATCAGAAC	TTTCTTAAC
136021	TGCACCTTAGT	GCACCTTAGG	TCTACTCCAG	AATGCTCATG	GAGAAAGTTT	CTGAAGGTA

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139321	AAATGTTACT	CAAAAAAATA	CAGAGGACAT	ATGTGGATAG	ATAATGGAAG	AGATAAGATA
139381	GGTAGGTTGA	AGGGTTGGGC	TGCCCCCTCA	CACCTGTGGG	TGTTTCTCGT	TAGGTGGAAT
139441	GAGAGACTTG	GAAAAGAAAG	AGACACAGAG	ACAAAGTATA	GAGAAAGAAA	AAAAGGGGTC
139501	CAGGGGACCG	GTGTTTCAGCA	TACGGAGGAT	CCCACCGGCC	TCTGAGTTCC	CTTAGTATTT
139561	ATTGATCATT	ATTGGGTGTT	TCTCGGAGAG	GGGGATGTGG	CAGGGTCAAA	GGATAATAGT
139621	GGAGAGAAGG	TCAGCAGGTA	AACACGTGAA	CAAAGGTCTC	TGCATCATAA	ACAAGGTAAA
139681	GAATTAAGTG	CTGTGCTTTA	GATATGCATA	CACATAAACA	TCTCAATGAC	TTGAAGAGCA
139741	GTATTGCTGC	CAGCATGTCC	CACCTCCAGC	CCTAAGGCAG	TTTTCCCCTA	TCTCAGTAGA
139801	TGGAATATAC	AATCGGGTTT	TACACTGAGA	CATTCCATTG	CCCAGGGACG	AGCAGGAGAC
139861	AGATGCCTTC	CTCTTGCTC	AACTGCAAAG	AGGCGTTCCT	TCCTCTTTTA	CTAATCCTCC
139921	TCAGCACAGA	CCCTTTACGG	GTGTCGGGCT	GGGGGACGGT	CAGGTCTTTC	CCTTCCCACG
139981	AGGCCACATT	TCAGACTATC	ACATGGGGAG	AAACCTTGGA	CAATACCTGG	CTTTCCTAGG
140041	CAGAGGTCCC	TGTGGCCTTC	CTCAGTGTTT	TGTGTCCCTG	AGTACTTGAG	ATTAGGGAGT
140101	GGAGATGACT	CTTAACGAGC	ATGCTGCCTT	CAAGCATTTC	TTTAACAAAG	CACATCTTGC
140161	ACAGCCCTTA	ATCCATTAA	CCCTGAGTTG	ACACAGCATA	TGTCTCAGGG	AGCACAGGGT
140221	TGGGGCTAGG	GTTAGATTAA	CAGCATCTCA	AGGCAGAAGA	ATTTTTCTTA	GTACAGACA
140281	AAATGGAGTC	TCCTATGTCT	ACTTCTTTCT	ACACAGACAC	AGTAACAATG	TGATCTCTCT
140341	CTCTTTTCCC	CACAGGAGGT	GATGGCCGGA	AGAACATGGC	AGAGGGCAAA	ACAAAACAGC
140401	ATTGGGAACA	AGCTCTGTTT	AAAAGGAGAC	TTGTGAACAG	CAAAGAGTAG	AAAGGGTTCT
140461	CTTACAAC TG	AAGCCCATGG	AAGACAAATG	TGTA CTGCGT	GAGTTTTAAG	GCAATAGGAG
140521	TAGTGGGACC	TAGGGCACAC	CAGAGAGCAT	ATTA ACTCTC	AAACTTTTAA	AAACATTATA
140581	TCTGCTGGAC	ACAGTGGCTC	ACACCTTAAT	CCTACA ACTT	TGGGAGGCCG	AGGCGGGCGG
140641	GTGTAGCTTG	AGCCCAGGAG	TTCCGAGACCA	ACCTGGGCAA	CATGGCAAAA	TCCCGTCCCT
140701	ACAAAACAAA	CAAAACAAAA	ACAAAATTAG	CCAGGCACGG	TGATGCGTAC	CTGTGGTCCC
140761	AGCTACTCAG	AGGCTGAGGT	GGGAGGATCG	CTTGAGCCCC	GGGAGGTTAA	GGCTGCAGTG
140821	AGCCATGATA	ATGCCACTGC	ATCTCAGCCT	GGGCAACAGA	GGGAGAACCT	GTCTCAAAAC
140881	AAAAACAAAA	ACACACCATA	CCCAACCACA	ATGCATCTGT	CTTAAGTACC	AGTACCACAC
140941	CCCTCTACTC	ACTACTAAAT	AGGTGAGTTC	CCAATCCCTG	GTAGCAGGTT	TAAGCATGTT
141001	ATATTAAAGG	TCTTAGGCTA	GTGACTCATT	CACTCATTAA	ACAAATACTT	ATTGTGCATC
141061	TACTATAAAC	TAAGTACTGT	GCTAGGTACA	AAAGCAAATA	ATCTAAGCTC	TATAAACTTT
141121	ACTTTCTTCA	TCAACAAAAT	GGAGATGTTT	TAGGCATCTA	CTCATCATTC	TGAGCTCCAT
141181	CTTTTGTGAC	TGTAGTTGGC	AGAGCTTTTT	ATCAGTTTCT	CTAAATAGCT	CTACCAGTCC
141241	CTGGTGGATG	CTGGCATGCC	CAAAGGATCC	ATCCTGATGG	CCCTGTCTGC	TTACCTTACC
141301	TGCCTGCCTT	TGCAGCACCG	CTCTGCTCTT	CTGCAGGACT	TCCCTTATCC	TTTGGGGTCT
141361	TGCTGCTCTT	AGGCTGCTCT	GCTTGTTTTG	ATCTGCTTTG	CATCACATGT	ATGTAAAGGT
141421	CCTTTTCTTA	TTTACCCATG	ACCAAGGTAT	TATGAGATTG	TGGAATTTCC	CCAAACCACA
141481	TTGATTGCTG	GGAGAATAGA	AGAAGTGAT	TACAAGTGGG	ACTTAGAAGG	GGAGTATTCG
141541	AGAAGACGTC	TCTGCAAATC	CATTTAGAGA	GACCTTTCTC	CAGTGGTGAC	TCAAAGATGC
141601	AGCTCCTTTC	ATCCTGTGGC	TTGGCCATCT	TCAGCACATG	GCTCCCAAGG	ATGTCCTCAG
141661	GATGGTCTCT	AATCCAAGGA	GCCTGAAGAG	AAAAAAAGGC	ATGGAGTATT	GTGAGTGGTA
141721	GGTGGTTATG	GACCAGTTAT	GGAAGAATAC	ACATCACTTT	TGCCCACCTT	CTACTAACCA
141781	GAAC TCACAC	AGCCATAGAC	ACTGACAAGT	AGGACTTAAC	AAGAATCTAA	TTTTGAGTCT
141841	AGGAATACGA	CTGTAGCAAA	TATTTAACAG	CTTCAAACAC	AGGTGCATTG	CTATCACTAT
141901	GCTTGGCCCA	GGCCTGTCTC	CCTTTCCTGC	CATGTACACAG	GGGCCAGCAT	TTATGTCTAG
141961	ATTGGGTTGG	TTGGGATATT	AAGACAATAA	TGAACCAATA	CAACATCTTG	AGCATAAAAC
142021	CAACTGATAC	AATGATGTAC	AAGTCAGATG	ATTCTGATGA	TTATGAATTA	TGTCATAAAA
142081	AGAAATGTGA	TAAC TAAGGT	AATTTTGTGT	TTGGCAAATT	TTTGT TTTGTT	CATGACAGGA
142141	TGAAATCCTG	TCATTTGTAG	CAACATGGAT	GGAATTGCAG	GATACTACAT	TAAGTGAAAT
142201	AAGCCAGAAA	CAGAAAGTTA	AACACCACAT	GTTCTCACTT	ATATGCAGAA	GCTAGCTAAC
142261	TAAGTAAATA	AGTTTATCTC	ATTGAAGTAA	AAAGTACAAC	AGAGATTACT	AGAGGCTGGG
142321	AATGGTAGGG	GAAAGAGATG	ATAAAGAGAG	ATTCATTAAA	ATAAGTTACA	GCTAGATAAG
142381	AGCAATCAGT	TCTAGTGTTT	TATTTGTACT	ACAGAATGGC	AATAGTTAAC	AGTAATAAAT
142441	AATTTCAAAG	AGCTAGAAAA	GAGGACATTG	AATGTTTCCA	ACACAAAGAA	ATGAGAAATG
142501	CTTGAAATAA	TGGATATTCT	AATTAATTAC	CCTGATCTGA	TCACTATACA	CAGTATGTAT

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145901 GTAGAACCGA GGCATGGTGG CTCAGCCCTG TAATCCCAAC ACTTTGGGAG GCTAAGGTGG
 145961 GAGGATTTGCT TGAAGCCCAAGT AGTTCAAGAC CAGCCCTGGG AACATGGAGA AACCCGTCT
 146021 CAATACAAAA AAATGAGCCA TGTTGGTGGT TGCGTGGCTG TATTCCCAAG CATTCCTGGAG
 146081 GCTGAGGTGG GAGGATGACT TGAAGCTTGG TGCGTGGCTG TATTCCCAAG CATTCCTGGAG
 146141 CCACTGCACT CCAAGTCTGG CAACGAGACA AGACCCTGTG TCAATATACA TATGAGACAA
 146201 CTTAAATTTT AAATGAGAA G CATACTACTG ATACAGAAAT GAGTAGAAGAT GCAAGCTTAG
 146261 TCTATTAACC AGAACCAATA AGATAAAAG AGATAAAAG GAGAGTGGAA GAAGGTATGT CATGAATTT
 146321 ATGATTAATG GCAATTTGCA AATACCAATA GCAATTTGCA AATACCAATA GCAATTTGCA
 146381 ACATATCCAA CCCTTTGGA GGCACCAAGA GAGGATTTGT TTGAAGCCAG AAGTTGGAGA
 146441 CCAAGCTGGG CAACATAGTG AGACCCTGTA TCTAAGAGG AAGAAAGAA AATATTTGATC
 146501 AGGATGATTA AGTAGACAAT ATGAAAGCC ATTTCTGCA AATACATAGT GAATTTGATC
 146561 AGTAATTTTC TTCCAACAAGT GCAAAATGA ATGATATTA GTTGCTTGA ATAAATTTCA
 146621 AATATCCAAC AAAAATATTA GACTATCTAA TAGTATCTAA GCTAGTAAAT TTGGCCAGTT
 146681 ATAAATGTC TTAATTTT ATTTAATAA AGAATACCAT ATTTATAGA AGAGGTGATA
 146741 AAGAGAAATT ATTTCAATTA TGAAGATTT GTTAGAATA TATAGAATA AAACTATTTT
 146801 TTGTTTCAA AAAGTGAAAG ATTAAGTTAC CAACAGTTG CTAAAGATA CCAATGGCT
 146861 GAGCGTGGTG ACTTATGCTT GTAATCCCA GACTTTGGA GGCACCAAGA GAGGATCAT
 146921 TTTAGGCTTG GAGTTGAGA CCAAGCTGGG CACTGTAGCA AGACCCTGCT CTATTAATA
 146981 AAAAAAAG AATAACCAAG CTTGCTAACA ATAGCAAGA TCAATTAAT TTGAGATGCT
 147041 CAATAATGA AAAAATGTA TTTATTTCT CAAGGACTT TCTGCTGATA TGAAGATGCT
 147101 AAATTAATAC TTTGGGTGCA TTTCTTTCT CAAGGACTT TCTGCTGATA TGAAGATGCT
 147161 TGAAGAAAG CCACACATTT GCAAGTATG TTGCAAAAG ACAGATCTGA TGAAGAACAA
 147221 TATTTTGA ATATACAAAG AATACTTAA ACTCAACAGT AAGAAATTA CCTGATTTAA
 147281 AGCAAGGCCA TGACCTGAA AC ATCTGTTAC CAAGAAAGAT ACACAGATGC AAGTATGAT
 147341 ATGAAAGAT GCTTGACATC ATGTCAATAG GGAACCTGCA ATTAACAA GTAGATAACA
 147401 CTGCATACCT AGTAGAATGA CCAAAATTA GAACACCTGTC AGCAACCAAG GTTGCAAAAG
 147461 TATGTAGCAA TAGTAATTTG TTCAATTTG GTAGAAATGC AAAATGTGCA ATCACTTTGG
 147521 AAGACAGTTT GGTGGTTTCT TACAATAAGT ACCATACCTT TACCATAGA TTCAACCAATC
 147581 ACACTCTTA GTATTTATCC AAAGGAATG AAAACTTATC TCCACACAAA AACCTGCA
 147641 TAGATGTTTA TAGCAGCTTT ATTCATTAAT TATCCAAAC TTGAAACAA GATGTCTTT
 147701 AGTAGGTAAG TGATTAATG TGATTAATG AATGTTATGA ATGTTATTA GAGTTAATA
 147761 GAAATGCAAT CACTTTGGG GGCAGATG GGTGATGCTG TTGAGGCTG GAGTTTGA
 147821 CCAAGCTGCT CAACATGGA AAACCCCAAT TAGCCGGGCA TAGTGGCGTG AGCCTGTAAT
 147881 CCAAGCTACT CGGAGGCTG AGATATGAG ATCGTTGA ATCGTTGA CCTGGAGAT GGAAGTTGCA
 147941 GTAGGCCAGT GCCACTGCA TCAGCCCTGG GCAACAGAGC AAGACTCTC TGTCTCAAA
 148001 AAAAAAATA AAAAAAATA AAAAAAATA AAAAAAATA AAAAAAATA AAAAAAATA
 148061 GAAACGATCA AGCCATGAAA ACACATGAA GAACTTAA TGTATGTTAC TAAAAAGCCA
 148121 ACCTGAAAG ACTGCATACT ATATGACTCC AACTGATGCA GGCAGAGCA GGCAGAGCA
 148181 AAGGCTTAGC CCGGAAAGAA TTCAAGGTG AAGTGGTGT GTTAGCAACT TTTACTGAAG
 148241 CAGCAAGTGA CAACAGCAGA ACAAGTACTG CTCTTGTG AGCAGGGCTA ACCATAGT
 148301 AATGTGCCA GAGTAGCAGC TCAGGGGCAG TTCTGCAATA ATATACCTGC TTTAGTTAA
 148361 GTGCATGTTA AGGGGGAATTA TGAGAAATTT TCTTAGAAAT GAGTGGTAA TTCCGAGTAG
 148421 GTACAGAGGA AAGAAAGTCA TAATGTCTTG TTGTGCTG TTGTGCTG GGCAGAGCA AACCTGATC
 148481 GCGCTGGTGG GCGTGTCTTA TGAGAGGTG CTTTAACCTC GTCCCTGTTT CCGCTAGTCT
 148541 TCAATCTGCT CCGAGTAA GTCCCTGCTT CCGAGTCA CTCTGCTC CTCTGCTC CTCTGCTC
 148601 ACTGTATGAC ACTCTAGAAA AGACAGTAA TATGACACA GTCAAAAGAT TAGTTGATAG
 148661 AAATTTGGTG ACAGGAAAGT TTGAAAGGC AGAACACAGG ATTTTTAGGG CAGTGAAACT
 148721 TCTGTGATAC TATATAGGTG AATACATGAC ATTTATACAT TGTCAAAACC CATAGAAAAGC
 148781 ACAACACCAA GAATAAACCC TAATGTAAAT TACAGACTTT CGTTGATAT GACGTGTCAA
 148841 TGTAAAGTTCA ATTTGATTA ATGTACTACT GTGTGCTG ATGTCTATG ATGTCTATG
 148901 TTTTGTCTC AATAGTTACA GTTGAAGTAA ATGTTGTGT TTTCCACAAAT GCATATGTA
 148961 AAACTCTCAC ATTTCAATGTG ATGTTCTTTG GAGGTGGGCT CTTTGGGTGA TAGTTAGTT
 149021 TAGTTGAGAT CCTAGCAGAT AGAAGCTTAG CAGTCTTCA TGAATGTCAT GTCCCTTATA
 149081 AGAAAAAGACC AGAAGCTTAG CAGTCTTCA TGAATGTCAT GTCCCTTATA GAAAGTTAGCC

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152381 TGGTTGGAAG AGTCAATGTT ATTTTGATT TTCTGTTTGG TTTTGTTTTA AATGCAGTTG
152441 GCGGATAATT GCAGCTTTCT TTCATTCCCT ACATGAGTTC AAATGGCAGC AAACAAACTA
152501 GGAGAACGCA GACCTTCTGA CTTGTGGGTA CCCCTACTCA TCACCTGAAG ACCCTTGAA
152561 ATCAAAGCCC TGACCCATTA AAGACGGATG GAGACAGCAA CATACGATCA TCACTATTAT
152621 CTTGCTTTGC CCCAGTCCAG GTTAACCATC TGTGGTATTT TTAGTTGCTA AGTCCATATA
152681 TTCAACATAA ATCAATTATA TATCCACTAA AATCTCAGCA CTAGTCTAAC TACTAAGGAA
152741 ATGACAGCGA AGAAAACAGA CCAAACGTCT GCCCTTATGG GATTTATATT ATTTTCTCTG
152801 TGCTGGTTAA ACCAAGGAGC TTCTGCTCTT TTCCTTAGTC ACCTGGGGGA GGCAGAAACA
152861 AAGGAGAATA TTGATAAAC TGGAAATAGG GCCGGAGAGT ATCAGAGAAG GAAGCCTTCG
152921 GGAAAGTAAA GATGTGGCAG CCAGTATTCC CGTTATAAAA GGATACAACCT CCGGCCTCAT
152981 AGTCCAGAAA AATTCACACA AGCAGGGGCT GCTCATGCAG ATGAAGGGAA GTTGGGGGAG
153041 AAGTAAGTGC TACATAGCCT TTCTTTTTGC ACAGCCTGAG GGTCCAGAAT CCAGACTGAG
153101 GCTCTTGCTT CATGCCAGTG CCCCTCTGCA CATTTTCCAT ACAAACCTCT AAATCCCATC
153161 CGGTTCCCTC GCCAACATCC ACTTCAAAGT AACGTCTTCC TGAGGTGAAG CCTTCACAAC
153221 CCAAGACACA GGGGAAGGCA GTAAATCTCC TGGAAGATGT GTCCTGATTC TCCTGGGTGT
153281 ATCCACGAGT CACTTGTCTC CGATCCTCAG AGAGAATTAG TTCGTGATGA GCTGTATCTG
153341 GATCCAGAGT CACACTAACT GCAAAACAAA ACAAACAAA CAAAATAAT TTTGTTGCTG
153401 TGAAGAACAC AGGTATTTTT ATTTTATTTT ATTTTGAGAT GGAGTGTGTC TGTCACCCAG
153461 GCTGGAGTGC ACTGGCACTA TCTCAACTCA CTGCAACCTC CACCTCCTGG ATTCAGGCAA
153521 TTCTCCTGCC TCAGCCTCCG GAGTAACTGC GACTACAGGT GCGCACCACC ACAAGTGGCT
153581 AATTTTTTTA AATTTTCTGT AGAGATGGGG TTTTCGCCATG TTGGCCAGGC TGGTCTCAAA
153641 CTCCTGACCT GAAGTGTTC ACCCACCCTG GCCTCCCAA GTGCTGGATT ACACAGGTGT
153701 GAGCCACCAT GCCCAGCCAC AAGTTATTTT CAATAAAACC AGCCTGTGTT CAAACCCAAC
153761 TATTGTTTCT TATAAACTGG GTGAGCTTAG GCAAATCATT TAACTTTCTG AGCCTCAGTT
153821 TGTTAACTAT AAAGTGGAAA TTACCGTATT TGTTGCAGAG AATGGTGGGT AGGATTGAAT
153881 AAGCTTATGT TTGCTTAATG CTTGGTAAAA TTCCTGGTAC ATGGTAACCA CCTAATAAGT
153941 GGTAGTTGTT GGGGTGATCA GGCCCAACAC CAGGCCGTGG GGGCTACAAA GTCCGGCGGG
154001 GTCAAAGGAA TGAGAAAAGA CAAGTTAAGA GTGCATAAAG TGGGTCCAGG GTGCCAGCAC
154061 TAGATTGGAG GCTGCAAAGG CCCTAAGCTC TGGGAGCCCA CACTATTTAT TGGTGATCAA
154121 ACAAAGAAGC AGGTGGTGAG GACGTGAGGG TAAACAGGTG AGGGCATGAG GACATGGGGG
154181 TAGAAAGGTA GTGGTGCAAT AAGCGTAGCT GTGACAGTTT AGCATTTCCT TTGACACATG
154241 TAGAATATAC TCTGCTGCTT GAGATAGTAG AGGACACGTT TATGAGTGAA AAGCAAGGAA
154301 CCAACAAGTC TGTGCACCTT CCAGAGGCTA TGAGGGGTTT TATGCCCTGA GCCCTGGGTT
154361 CCATCCAAGC CACAAGGGGT TTTATGCCCT AGGCTTAGAT TTGTGGTGCG GCAGGGCAGC
154421 CTTCCACCAT TTGGCACAGA GCTTGGTGTT CCAAAGGCCA CGAGGGGTTT TGGACCCTGG
154481 ACCCCGGACA TCTTCCAAGA CTCTTTTACA TTATGACAGA CAAGCCAGTT CTGCTTCAGC
154541 TCTTCTAACA ACATGTAGTA ATAATGATAT CATCAACATC ATCTTCGTCT TAATTATTCA
154601 AGGATGCCAA GGTACAGAAC TAACCTGTTA ATATGGTTAC CATCCTGTCC AAAGTTCTTC
154661 TCCCATGCAG GACTTCCAGG AATCATGAGA CAGTTGAGCA GAAAGATACC TTTTCCCTTC
154721 TCTACTGAAT AACCACCAAC ATTGAGAATC AGAGAGGGAA AATGACTCAG CTAATGTCTT
154781 AGCTTGTTAT TGGAAGACCC AGGTCTCATG ACACATGCCT AGTCCCATGA CTTTAAATTG
154841 TAAGCTCTTC TCTTTCCCTT CAGATAATGT TCCATAAGCA TTAGTATGAG ATAATAATAC
154901 ACTGAGGACC AATATACATG AAAAATATCA GACTAGAATC AAACAAGACA GAAAAAGAT
154961 CTGATAACCT AAAGTGAGAT ACTGAACAGT ATGCAGTTTT AAAAATAAAA AATGGTAATA
155021 GGATGTTCTA ACAAGAGAGT TAAGAAACCA CTGTGCTACT GAGTTAAATG TTGATCAGTT
155081 GGTCTGTGAC AATTAAGGAA TTCAAGTATT CAGAAACACT TCCTGTGCTG ATGCTCTCT
155141 GTTTGTTCTT CCAAATAATC CCTCACTTTT CCCTGTCTTG CTCTGTGCCC AGGAAGGCTG
155201 ACATGGACAG ATTAACCAGG CTTTCCGCCC TCTGGCTTGG TTCAGCCAAT GGAAGCACC
155261 AGAGGAGACC ATAGGGCACA AAGAAGCAGC CTTGGGAGTA TTCAGTACCC CAGTCCCACG
155321 CTATGATTTG GAGGGTCTGC ATTCTCTGCT CTCTGGGCAC ACTCTAGTAT AGTTACAGCT
155381 CCCTACACCT GCCACTTGAG GCCCAGAGGA GGTGATGGCT CTCTAACTGT TCCTAGTTCT
155441 GGGTGCTTCC TGTTCCCTGT GGATTTCCCA ACTCCTCACC TTTGTAAATA CCCTCCTTTT
155501 TCAAACCTCTA TTCAGTTAGC TTTTATCAGC CTGACTCACA GAAGTTTGGG GTTTCAATTC
155561 ATATTACCTG AATGACCAG GAAAACCCAT GTTGAGAAAT TAAATGTTT ACGGGGTGGT

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155621	AATACCACTT	AAGAGAAAAA	ATATCAATTG	GATTTTTTAA	ATTCCACCTA	TCTATTGGTG
155681	TGACACATCA	ACAAAAACAT	ATAGAAAGAT	TGGAAGCTAA	AAGATAGATA	ATATAGTCAT
155741	ATACTGTTAT	AGTATTATAT	CAAAAGATAT	TAAGTCAGAG	CATTATTAAG	AATGGAAGAA
155801	GGGCCAGGTG	TGGTGGCTCA	TGCCTGTAAT	CCCAGCACTT	TGGGAGGCCA	AGGCAGGCGG
155861	ATCACTTGAA	GCCAGGAGTT	CAAGACCAGC	CTGCCCAACA	TGGCAAAACC	CTGGCTCTAC
155921	CAAAAATACA	ACAATTAGCT	GGGCATTGTG	GCACATGCCT	GTAATCCCAG	CTACTTGGGA
155981	GGCTGAAGCA	CAAGAATCAC	TTGAACCGGG	GAGGCAGAGG	TTGCAGTGAG	CTGAGATTTT
156041	GCCACTACAC	TACAGCCTGG	GTGACAGAGA	GAGATTCTGT	CTCAAAAAAA	AAAAAAAAGA
156101	AAGAATGAAA	GGAGTCACCT	AAAAAAGATA	ACACAATTTT	AAACATAAAT	GTACTACATT
156161	ATTAGTGAAT	TCATGTTTAG	AATTGTGTTA	ATATACAAAG	CAAAAATTGT	AGAATTATAG
156221	GAGAAATGGA	CAAATCTACA	ATCATCATGG	GATGTTTTAA	CATTCTTCTT	TCCATAATTG
156281	ATAGATCAGG	CAGACCAAAA	GAAAGAAATA	AGGGAAGATA	CGGAAGGTCT	GAACAATCTA
156341	AGAAGCGCAA	TCTCATAGTC	AATACATAAA	GCTCAGCAAT	TGTTTAATAA	TAGTAAGCAG
156401	AGAATATGCA	GTTTTCTCAG	GTATAGATGG	AACATGCACT	AACTGAGTAA	ATACTAGGCA
156461	GAAAAACAGT	TGAACAAGTT	TCAATAAATC	TGTATTACAC	AGATCATTTT	CTCTAGCCTC
156521	AATATAAGAT	TATAAACCAA	TAATAAAAAA	ATGACTAAAA	AGATTCTAAA	TATTAGGAAA
156581	TGTAAACTAC	TAATAAGTCA	TTAGAAGATG	TATAGAATGG	AACAATAATA	AAATGTTATT
156641	TATAAAAATA	TACAATGAAG	CTAAAGCAGA	ATTTTAAAGG	AAATTTGTAG	GCTTTAAATG
156701	CTTATCTTAG	AAAAATTAAA	AAGCTGAACA	TTAATGAGCC	AAGCATCTAA	TTTAAATTTT
156761	AAAAAGAACA	TAGAAAGCCA	AATATAATTT	TTTAAAAAGA	AAAAATAGAT	ATTAAACAAT
156821	ATAACAGTGA	AGTTAAAGAA	AACAAGAATG	CAATAAAGAG	GAAAAACAAA	CAAAAAAATA
156881	AGTAGCTTCT	TTTAAAAGAA	ATTTAATAAA	ATAGACATAC	CTCCAATGAG	ATTTATCAAA
156941	GTAAGACAGA	AGGCACAAAT	GGAATGAATA	CAGAAACTTT	TTAAATATTA	CAGAACTTTA
157001	TAATAAATCT	TATGCTACTA	ATAAAATTGA	AAGTACTGAT	AAAATTATTA	CTTCCTAGAA
157061	AAAATATTTT	TGAGTAAAAC	TCACTCAAAA	AACAAATAAA	GCATGGGCAG	ACCTAACATT
157121	AAAGAAATGA	AATCACTACT	TTAAATTTTA	CCGACAGATA	ATAAACCGTG	CATCTTTATC
157181	AAGCAAAAAT	GGAACCTGTC	AGTTTTATAG	GAAATTTAGA	AGTCAAGGCA	TGAGTAATGC
157241	CAATCTCATA	CCAAATCCTA	CAAAGAATAG	AAAATTATGG	CTCCCGCTTA	TAGACATAGA
157301	TATAGAACTC	CTGCACAAAA	TAATATAAAT	AACAAACCAA	ATTTTATATT	TGCAACTATA
157361	CATATTATAT	GTGTATGTAT	TATATATGTT	AACATATACA	TATATAATAT	TATAGCATA
157421	TGTTCTACAT	ATTATATATG	TATAGTGTAT	GTATTTTACA	ATATATAAAT	GAAAAACCAA
157481	TCTTTAATAT	ATTCATCTAG	ATTGTCTAT	ATGACATATA	TAATACATTA	CATCAAAAAT
157541	GTGTACAATA	ATCAGGCCAG	GCACAGTGAC	TCATGCCTGT	AATCCCAGCA	CGTTGGGAGG
157601	CTGAGGCGGG	TCAATCACTT	GAGTCCAAGA	GTTTGAGACC	AGCCTGGTCA	ATATGGCCAA
157661	ATTCCATCTC	TACAAAAAAT	ATGAAAAATT	ATCCAGGCAT	TGTGGTGCAC	ACCAATAGTC
157721	CCAGCTACTC	GGGAAGCTGA	GGTGAGAGGA	TCACTTAAGC	CTGGGAGGTG	GAGATTGCAG
157781	TGAGTCGAGA	TTGCGCCAGT	GCACTCCAGC	CTGGGTGGCA	AAGGGAGACC	CTGTCTCAAA
157841	AAAAAATTAA	AAAATTAGCC	AGGTATGGTG	GCCTGTTTCT	GTAGTCCCAG	CAACTGGGGA
157901	GGCTGAGGTG	AGAAGATCAC	TTTAGCTCAG	GTGGTGGAGC	CATGATCGCA	CCACTGTACC
157961	ACTCGGCTTG	GGCAACAGAG	TGAGAGCCTG	TCTCGAAAAA	ACAAATATAT	ACACACAGTA
158021	ATCAATATAT	ATATTATATG	TACCAATCAA	TGCTTCACTT	TTATATATAA	TATAGATTAC
158081	ATCTTATTAG	ATATATAGTA	TTCTTCTCTC	ATAGATAGAT	AGATACAGAT	ATAGACATAG
158141	TATCCTCTAT	CCATATTAGA	GAGAGGATAC	TATATATATC	TATAGCATAT	AGAGATGCTG
158201	TCTCAAAAAA	ATTTAAACAT	CAGCCAGATG	TGGTGGCCCA	TGCCTGTAGT	CCCAGCTACT
158261	GGGGAGGCTG	AAATGAGAGG	ATTGCCATTG	ATCCTCTCAT	TGGTTGAGCC	ATAATCGCAC
158321	TACTGCACCA	CTCAGCCTGG	GAGACAGAGG	GAGACCTGAG	GTGGAAGGAT	ATAGATATAG
158381	ATATATAAAT	AAATATGTAT	AGAGAGAATA	TAATATATGT	GTGTATGTGT	ATATATATAT
158441	ATTATGAAGA	CACTGGGAGA	GAATACTATA	TATATATGTG	TGTGTGTATA	TATATATTAT
158501	GAAGCACTG	GTGGGATGGT	TTCATTACCA	ATTGGACCAA	GAGTCCAGGT	ATGGAGCCAA
158561	CATGCAATGT	TGTTGTTGAC	TGAGCTGGCA	GAGCACTGGT	CATAGTTACG	GGAAAAGAAG
158621	GTCTCCAATG	AGACATACTT	AACAAAATAT	ATGAACCTGC	CATATACGTG	GAGAGTTCTG
158681	GTGTGTATAT	AGCCTTCTCT	CACCAACCTA	GCAATTGTCT	TCATCATCAT	TATAATGCTA
158741	TCAGAGCAAA	GATGACAGCT	AAATTTTTTT	GTCCCTTTCT	TCTTCTTTCT	CTTCCTTCCC
158801	CTCCCCCACC	TCTTTCTCTT	CCTCCTCCTC	CTTCATCTCT	CTTCTTTTTT	TTTTTGAGAT

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158861	GGAGTCTTAC	TCTGTCGCTC	AAGCTGGAGT	GCAGTGGCAC	AATCTCAGCT	CACTGCAACC
158921	TCTGCCTTCT	GGGTTCAAGC	AATTCTGCCT	AAGCCTCCAG	AGTAGCTAGG	ACTGCAAGTG
158981	CACACCACCA	CACCTGGCTA	ATTTTTGTAT	TTTTAGTAGA	GATAGGGTTT	CACAATGCTG
159041	GCCAGGCTGG	TCTCAAACCTC	CTGCCCTCAA	GTGATCCTCC	TGCCTCGGCC	TCCCAATGTG
159101	CTGGGATTAC	AGGCGTAAGC	CACTGTACCC	GGCCTCCTCC	TTTAATAGAC	AGGGTCTAGC
159161	TCTGTTGCCC	AGGCTGGGTA	CAGTGGCGTG	ATCATAGCTT	ACTGCAGCCT	CGAACTCCTG
159221	GGCTCAGGAG	ATCCTCCTGC	CCTAGTCTCC	CCAGTAGCTG	GAACTACAGG	CATAGCACAC
159281	GGGGCTAATA	AAATTAATTA	GGTGATAAAA	TTCAGTCCCC	ACTGATGACT	AAGCTCTTTG
159341	GACATAAAAG	ACACAGACCT	TGAAGGAAAA	TGTGTCTACT	TAATTTTGAA	ACCCTATTTA
159401	TCAAAAAACA	GGATGAAAAT	GCAAAATGCC	ATCCACATGC	CAGAAGATAT	CAGCTATAAT
159461	AAGTTCCCAT	AAATCAATAA	GGAAAAAGAAC	CCAATAAAAA	TTATTAAACC	ACAGTAAATC
159521	ATGGGTAAAT	CACAGAGGCC	TGAAGGGCTA	ATGGACATAC	AAAAAGAATC	TCAATCTCAC
159581	TAGTGAAATC	AGAAAAAGCAC	AAATTAAGTA	CACAATTAGG	TACCATTTTA	AATCTGTAAG
159641	ACTGTCAAAA	TCATAAATTA	TATAAGTAAA	GACTCAGGGA	GTTTTGGAGG	AGTGAGAGCT
159701	CTTATATTGC	TTGTGGGGTA	GAATTGGAAC	AATTTCAAGA	TCTGTAGTAT	CTGGTAAAT
159761	TATGATATGC	ATCCCTCACA	CCAGCATGTC	ACTCCAAGGT	ATCTCCCTGG	AGGGAACATT
159821	TACGGGACAC	AAGGAAGCAT	GGATAAGAAT	GTTACACAGTA	GTATTGTCTG	CAACAGCAAC
159881	AACAACAAAA	AAACCCAACT	ACACACAACT	TCAATGCCCA	GTCCACAAGG	CAATGGATTA
159941	AATAAACTTC	AGGCCGGAGA	TGGTGGTTCA	TGCCTGTAAT	CCCAACACTT	TAGAAGGCCG
160001	AGGCGAGAGG	ACTGCTTGAG	CCCAGGAGTT	CAAGACCAGC	CTGAACAAAA	TAAAGAGATA
160061	GTGTTTCTAC	AAAAAATTTT	TAAAAAATTA	GCCAGACGTG	GCAGTGCTTG	CCTGTGGTCC
160121	CAGCTACTGG	GGAAGCTGAC	TGGGAGGAT	TGCTTAAGCC	CAGGAATTTA	AGGCTGCAGG
160181	GAGCCATGAT	GGGGCCATTG	CACTCCAGCC	TGGGTGACAG	AGTGAGACCC	TGTCTAAAAG
160241	AGATAAGTAA	ATAACAACCTT	TGCATTTTCT	GCCACATTGC	AAAATGGTGA	GAGAGTGGTT
160301	TCTAGACTCT	AGACTCTTTC	TATGACTACC	TTCTAGTTAT	GAGATCCTAC	AACACTCACC
160361	TAACCTCTCT	GTGTCATATT	TCCTCCTCTA	TAAAGCAAAA	ATGCCCCATA	TAGAGAGGAC
160421	TGTGATATAA	AACAAGAACC	AAGAAAAGTA	AAGCTTTTCT	AATCTGTCAC	AGACTAAAGA
160481	GTGCTCAGTA	TATGTGAGTC	ATTATTCCTG	GTGCTGGTAG	GAGTGTATGT	TACAACTTTG
160541	AGTCAAGTAA	TATGGTACCA	TATATTAAGA	TTAACAACAA	CCTCGGCAAT	CCCAGTTTGG
160601	GGTATGTTCC	CAAAAGAAAT	GAAAGCACCA	GGATATAAGG	ATGCATGGAC	TAGAAAGTTA
160661	TTGTAGCAAC	ATTGTAATAA	CTAAGTTCTA	AAAACAGCCT	GAAGCTCCAT	CAGTAGGGAT
160721	ATGGTTACAT	ATATTTATTA	TATTCCTATG	GAATATTAGA	CATAAAAAGT	AACGAGTAAC
160781	ATAGAAGAGA	CAGTGTATAT	ATGTTACGTT	TGTACAAACT	TAGGGAAAGA	TATAGATCAC
160841	CCTACCTAGA	GAAGTCAGAT	TGGAGAGGGG	TGGGAAAAAC	CTTGAACTTT	CTCCTTATAT
160901	CCTTTATATT	GTTTGACTGA	TTAAATGTGA	TTTGTGTCAT	CTGCTTGAAG	GCAATGTAAA
160961	ATAAAATAAA	CATACATTTA	AAAATAAAAA	TAAAATTTAT	TCCTATCACT	TTTGTAAATA
161021	AGCTGGGCAC	AGTGACTAAC	ACTTGTAATC	CTAGCACTTT	GGGAGGCAGA	GACAGGCAGA
161081	TCACCTGAGG	TCAGGGGTTT	GAGACCAGCC	TGGCCAAACAT	TGTGAAACCC	CATCTCTACT
161141	AAAAATACAA	AAATCAGCCA	GGCATAGTGG	TGCGTACCTG	TAATCCCACG	CTACCCGGGA
161201	GGCTGAGGCG	CTGGAACCCA	GGAGGCAGAG	GCTGCAGTGA	GCTGAGATTG	CGGCACTGCA
161261	AGCCAGCCTG	GGTAACAGCG	AGACTCCATC	TCAAAAAAAA	ATTTGAAAAA	AGAAAAATTT
161321	TAATAAACAG	TGTTTAAGAG	GGGAGAAATA	TTTAGTTAAA	AGATAAGCCC	ATTTAAGAAA
161381	TAGTTTCACT	TGACCCGGAA	GGCGGAGCTT	GCAGTGAGCC	GAGATCGCAC	CACTGCACTC
161441	CAGCCTGGGC	GACAGAGCGA	GACTCTGTCT	CAAAAAAAA	AAAAAAGAAA	GAAAGAAAGA
161501	AAGAAATAGT	TTCACTTGAA	CCATATTATG	ATTCCTTCTG	TAAAAGATGA	GAGTAGGCAA
161561	ATTGACTCAG	TGAAATCCCA	GCAAAACTTA	CACAAAGTCT	TGTTCTTCCT	TCCTGTCTATC
161621	TGTATAGGAT	GAAATACAGA	GTGCTTTTGG	GTTTTGTTGT	TGTTTGTGTG	TGTGTATTTG
161681	AGGGGAACAC	AGGTCTATAA	TTCTTTTCT	GAAATCCCTG	GAACAAAATG	GGCTTTGCCA
161741	TTCAAATTAG	TTTAGAAGTT	ATAAAGGCAA	AAAAATGCAT	ATACTCTAAA	GTTCAACCCC
161801	ATCATGGCCT	AAGGCAGAGC	CCTGTAATCA	AATTCATCAA	TATATCTGCA	GCAAAACATT
161861	TATTCAAATT	AAGTGGGATA	AATAAAGACT	TTTAAATAGT	CTCATCTCAG	TGCCGTTTCTG
161921	GGTTGGCCAC	TGTGGAAGAC	AGACTCAAGG	GTGGCCTTCT	ATGATTCCTG	CCTCTTGGTG
161981	TTACACCCCT	CGTAAAATTC	CTTGCTTTTG	AGTGTGAGCA	GGGCTTATGA	ATTGCTTCTG
162041	ACCAATAGGA	TATGGCAAAG	ATGATGGGAT	ATAATTTCTA	TGATTACGTT	TCATTATGTA

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162101	AGACTCCATC	TTGCTGGCAG	ATTTTCTCTA	AAGAGTCTGT	CTCCTGAGCT	CTCTCTGAAG
162161	AAATAACTGG	CCATGTTAGA	AGCCCATGTG	CAAAGAGCTG	AGGGGTGGCC	TGTAGAAGCT
162221	GTGGGCAACC	TCCAGCCAAC	AGCCAGAAAT	AACCAGGGCC	AAAGTCCTGC	AACCATCAGG
162281	AAAGAAATTC	TGCCTGCTAT	CTCAGTGAGC	TTGGAAGTGG	ATTCTTCCTT	AGCCTAGCCT
162341	CCAGATAAGA	ACACAGCCTG	ACCAACACCT	TAACCTGCAGC	CTTATCAGAC	CCTAAGCAGC
162401	AGGCCCAACT	AAGCTGTGCC	CAGATTCCTG	AACCACAAAA	ATTGAGATAA	CATATCAGTG
162361	TTGTATTAAG	GTTCTAAATT	ATGGTAATTT	GTTTGTACTA	ATAGATAAGT	AATATAACCA
162421	CCAAATCATT	TCAGGTTAGG	CCAGATTTTT	GTAGCCAAAT	GAATCATGAT	AAAACCTTCC
162481	ATTTTCAGGG	GTTTTTTTGA	TTTTGTACTT	ACGGATACAA	ATTTGTGAAA	GTATAGTCAG
162541	CACTGATTTA	AAAAATCAAG	GGAGCAGGAA	ACTCAGTAAA	TGGTTCTAAC	ATTTTGGAAT
162601	CTGTAAATTG	GTTGTAACAT	TTGTCATCTG	TGTTATCTAA	GTCAAGTTCC	TAAAATATGT
162661	GAATGATAGG	TTATCATACT	CACCTACTTT	TCTTGCATTG	CTCTAAGAGT	TGGCTGAGCT
162721	ATTGATAATA	AACACTATGA	TCAGATCTAA	TACCATGATG	TGCTATTATG	ATCATGTGTC
162781	AGTCACAGGG	CTAAGCACTT	TGTACATGTT	GATGCATTTA	ATTTTGATGA	TAACCTCAATG
162841	AAGTAGGAGC	TGTTAATATT	TTCATTTTTT	AGAGGGGGAA	ACCAAGTCAC	TTGGAGTAAC
162901	ATGGCTAATA	AGTGAAAGAA	TAAGAATTTG	AAAGGTTTGC	ACAGATAACC	AGAATGCAAT
162961	GCTCATCACA	TTCACAGAGC	AGTGAATCAT	ACTAACTAGA	GAAAGTATGA	AAGCTCTACT
163021	GAAATTAACT	AAACAACCTC	TCTGGCTGTG	AGCCTGCCAA	GGGACAGGTG	GTAAACTTGG
163081	TTACTGCATA	AGGCCCCCTC	TATCCACAGT	ATTCAGGAAT	TCTTTAGTGA	ACATACCTTG
163141	ATGACTCCTT	AACATTTTCT	TCACATCGAA	GTAAAGCTTG	GAAACATGTC	ACATAGTATG
163201	AAGTTCCAAG	GAGACAGCCT	CTGATGTTTC	CAGCTTCACA	GCCCAACTCC	TAGAATAAGC
163261	AGAGGCGAGA	GATTTCTTCA	GAGGTGCATT	CCATTTCATT	CTATATACGC	ACACCCCTCC
163321	CCTCCTGCAT	TCAAACAGGA	CTTACCTGCT	CAAAGTGTC	TTCACATTCT	ATAAAGAAAC
163381	AAAAAGAAAA	GGTGAGCATG	GGAACATCGG	TATTTTCATG	GGCTTGTCAT	GCAGGGCTAT
163441	TCTTCTTTGC	TTTACCCGAA	GAAGTAAAGA	GAGTTACCCT	AGTCTTAGTC	TTAGATATTG
163501	ATGGATACTC	AAACAAAGTA	ATTCCCACCA	GTCTTAGGTA	TTGATGGATA	CCCAGATGGA
163561	ATAATTCCTA	CCAGCTTCTG	GGAGATTCAG	CATGGCAGGA	TGTTTATCAA	CATTTGCATC
163621	TATTCTCATC	CTTGCTGAAG	TCTGAGGGCC	AGGAGCTTTG	TCCATGCTCC	CTCTGTAAGG
163681	ACTAGCTTTT	GGTGATCGGA	TTTCCTTCAC	AGTGAGCCCA	GATTAGAGAA	CACTTATCAT
163741	AAAGGTCCTT	AGTGGTGAAT	CTGTGCACAG	CCCTGAGACT	GGGCCACTGC	CACTAAGATG
163801	GTGGTAGCAG	GTATCACACA	GTGGTAAAGC	AATCATGCTA	TACACTGAGC	CTTACAGTAT
163861	AGTCACCAAT	CCTGTTAGTT	AGAACCAGAA	TTAATGGCTC	CAGATGTTTA	TCTTCCTACA
163921	GATAAAGCTG	TAGATTGTAC	CATAACAGCT	CTGGAGCAAG	GGTTCTACAA	GCAAATCAGG
163981	GAAAAGGTTA	TCACTCATTT	TGGCTGCCCC	ACTTCATCAC	CCATCAGTCA	CCTAGTGGAG
164041	TATTTTCAGGA	GAGAGTCAAC	AACCAGGGTT	CTCTGCACAT	GGGCCAAGGA	GGCAAACAGT
164101	GGTAAATGTT	ATCCCGTGGT	TTCATTTGGC	CAAGCTGTGT	TCCCTCAGAA	GTTTATTTTT
164161	CTAATTGACA	TAAAGGTACC	CTATAAATTA	GTGAAGGCCA	GCCTGATGGC	ACTGATGTAC
164221	ATCTAAAAGA	AACATTACTT	TATCTTCCCA	TGCTTCCTTA	CCATTCTCCT	TTAATAGCAC
164281	TATAACATAC	CTTTTTTCCC	TACTCCAAGT	ACACAGCCTC	ACCTGCAGCA	ATTTCTGGGC
164341	TGAGCCCTGA	CATTTTTTCT	CCAGTTCCAG	GATGTGGCTC	TTGAGTTTCT	TGCTCTTCAG
164401	CCCCAGACCA	GCCTCATAGT	CCCTCAGTCT	ACTCAGAGTC	TGTTGTTCTT	CTTTCTCCAG
164461	CCTCCAGAGA	TAAGACTTCT	CTTCTCATG	TAGGAAACAC	TGGAGATTCT	TAAAGTCAGA
164521	CCGGATTTTT	TGTCTCTGAA	TCTGTACCTT	CTCCTGGAGT	CAAGAAAGTA	TGGTCAAAAG
164581	GTGGAAGTAA	ACCAAATGTC	CATCTATGGA	TGAATGGATA	AACAAGAATG	AAAGTCTGAC
164641	ACACGCTACT	ACATGACAAG	CCTTGAAGAC	ATTCAAGCAA	AATAAGCCAG	AAACAAAAGG
164701	GCAAATATTG	TAAGACTTTG	CTTATACAAG	GCATCTGGAG	TAGTTAAGTT	CATAGAGACA
164761	GAAAGTAAAA	TAGTGGTTAC	AAGGTGTTGG	CAAGACCAGA	AAATGGACAG	TTATTGTTTA
164821	ATGGGTAGTG	AGTTTCAGTT	TAGAAGATGA	AAGATGAAAC	TGAGTTGCAG	TTTGGAGATG
164881	GGAATGGTGA	TGGTTGCACA	ACAATGTAAC	AATGTAAAAG	CACTTAATTC	TACTGAACTA
164941	TATACTTAAA	AGTGGTTAA	TGCTTAAGTG	TTATATATAT	TTTCACACAA	ACACACACAC
165001	ACACACAATC	AGCCACTGGG	ACATTATTTT	CTCATGAGTC	ACTGAAGCTG	GAAGAATGTC
165061	CCAGGTTTCC	TGCTGCAGAG	TCATGTGTGG	GAGGCAGGCA	CTCAGATGTG	GAAGAGGTTG
165121	CCTCAGATTC	CTTATAGTCA	CCCAATTAAT	TTTCTTGTTT	TTCAGCCAAG	ACACAGGAGA
165181	AAGCTGGGTT	AGGAGTGCTA	GATAATTTAA	TTGTGAAACT	AGGGCCAAGT	TCAAACACTT

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165241	TATCAGTTAC	AAGGATAAAA	AGAGGTTTTT	ACTTATGATT	TAAGAAGTTA	GATTTCTGAG
165301	TTGGAGCGAT	TTTCTTGAAG	TAAAAGCTTA	TAATGAACAT	CACCCAGACT	GGATTTTAAG
165361	ACAACCAGGC	TGGTAAGAGG	GTCCATAATT	CTTGGCAGGG	GGAGCTTTGA	GTGTGACAGG
165421	CATTTATTAT	GGTTAACTGA	GAAATACTGT	TCTACTACCC	TAGGGTCATC	TTAAGCATT
165481	CTATGTGTAA	GACTGACAGA	AATCAAGTGA	AACTCTCATC	TGAGGAGATG	TAAAGTTGCA
165541	ATTTCCATTA	GTGCTGTCTA	AATTAATGCA	GTGGGAGTGT	GTATTTCAGG	CAATTTGAAT
165601	CTATGTTCTT	GGATTGCAGT	CTTCAAACCT	GGCCCCAAATA	AACTCTCTAC	TTATCTTAAA
165661	AAAATAAAAA	TTAAAAAATA	AAAATAAATT	CATACAGTGT	TTTGATGACT	ATGATATAGA
165721	AGAAGGGTCT	TTGACTTAGG	ATGAGGTGGA	ATTTTTGTGT	AGGAGACAGG	TGCAGCTTTA
165781	ACTCTTGTAT	AGACGGGTTT	TCATATATGT	TAGTTACAAT	CAAGGTCTTC	CCCATTGCCC
165841	AAGATCCTAG	AAATGGGGGA	AGTAAGAGTG	TACTCAGGAG	CTCAAGAGCA	ACATCCACAA
165901	ACAAAGATCA	GGGTAGAGGT	TAGAGAGGAC	TCCTGAAAGA	GAGAAAATTG	GTAATCAGCT
165961	TGTGGGATTT	TACTGCAAGC	TAGTGAATTA	TATAAATATA	AAGATTGGTG	CAAAAGTAAT
166021	TGTGGTTTTT	GCCTTTACTT	TAATGGCAAA	GACCGCAATT	ACTTTTGCAC	AAACCTAAAT
166081	ATTTCCATAA	AAGAATGTGG	CTCTGATAAT	GTGGAGGTTA	GTCAGCCACG	GAAATAATCT
166141	GAAAGTTTGT	AGTTGCAAGT	GTGTAGGTTG	TTGCATTACT	TGTGATGTAC	TTATAAATCA
166201	AGTATAGGCC	GGGTGCAGTG	GCTCACGCC	GTAATCCCAG	CACCTTGGGA	GGCTGAGGTG
166261	GGTGAATCAC	GAGGTGAGGA	GATCAAGACC	ATCCTGGCCA	ACATGGTGAA	ACCCCGTCTC
166321	TACTAAAATA	CAAAAAATTA	GCCAGGCATG	GTAGCACATG	CCTGTAATCC	CAGCTACTCA
166381	AGAGGCTGAG	GCAGGGGAAT	TGCTTGAACC	CGGGAGGTGG	ACATTGCAGT	GAGCTGAGAT
166441	CGCACCACTA	CACTCCAGCA	AGACTCCATC	TCAAAAAATA	GTAATAATTT	AAAAATAAAT
166501	AAATAAATAA	AGTATATTTT	TTTCATCAGC	TTTCATGAGCT	TGAGTAGTAT	GAATTTCAAT
166561	CTGGAGTGAT	CCTGTTTTCT	AAGTGTTTCA	AAAGCTTGGT	TTCTGTACCT	GTAAAGTTGA
166621	GAGCCAGATG	CTCCACTGTG	GTAAAAGTGC	CAGGGTAATG	AGTTGAGGCC	TGCAAACCAG
166681	GTTTATTTTG	AGGTATTTAA	AGTTTGAGAC	CCACTCGATG	CTTTTTCTAG	GTAATAGTTC
166741	ATACTAATTC	TGCTTCTTCT	GACTGAAGTA	TCAGGAATCC	CAGCCAACCTA	CAGTTTAAAG
166801	ATGGAAAGAT	TGGTGCTAAA	TACTCATGGA	TGTAAACCTG	GAACCAGGGG	CATAAGTACA
166861	AATAATGGTT	TCTTCCTTGG	GTTTCATTTT	TTCAATCTGG	TTTAGTGAGA	ATAAATCCTC
166921	ATTGTGCTTT	TCCTCAATCA	TCCCCTATGC	CTAAGCTCTA	GAATGGAAAA	TAGCTTGAGA
166981	TCAATGAAGT	CAGATTCTTA	CTTTCCATTT	AGTTATTCGC	ATTGCTGTGG	ACAGCTTCTG
167041	CTCCGTACAT	CTGTCTTCAA	GTTGCTTCAG	TTTTGTGACA	GCTTTCTGGA	GCTTTTCCTG
167101	AAGGAAAAAT	TTGATAAGTG	AAGCCTATTC	AATTTGACTC	TTCATTAGGG	ACCTAGGGGG
167161	AATCCCAATC	TTCTAAGATA	TATTTGAATA	ATAGTGAATA	TTTATAGAGT	CCTCATGTGT
167221	TTTTGCTAGA	GAGCATGCTA	AAGGCTATAT	GTGCAGGAAC	ATACTGATCC	CCTTGGCAAC
167281	CCTGAATAGT	TGGTAGGATT	TTAAACTTCA	TTTCTGTGCT	GTAGAAAATG	AGACTAAGAA
167341	AGGGGTAAAA	TAACCTTGCCC	AAAGGGCTAT	GACTGCCAGG	TGGTGGAGCA	ACAATTGCAA
167401	TCTCATCTGC	TGACCCAGAG	CTCGAGCTAT	GTCACCACT	AGAGTCTGTC	CAGGAAAAAG
167461	TTGGATATAG	AACAAGGTAA	TCATCATCTA	AAAGATTTTG	TAAAACAACA	TGCTGAACCA
167521	AGCAAAACCA	ATACCAGTGT	TTGGCACACA	TGAAATTTTG	TGTCTTATGA	GTCAGGAAAA
167581	ATCAGGATGC	CAGCTGGTTA	TTAGAAACAG	TTCATGGAAG	AGGGGAATTC	TGGTATCTTT
167641	TGAACAATGG	TATCATGAAT	CCAATTTAAA	ATGATTTAGT	ATTCATGTCA	AGCTTTTAGC
167701	TTATTCTTCA	AAACAGTTTC	TCATATTTCT	ATTGAAAGTG	ATTTGAAGCT	GACCCAAATT
167761	GCTAATTGTA	GTCAATGCTG	AAAGAATTGT	CTCCTGTCCT	CTGTAAACCC	AACAAGTATA
167821	CTCATTCATT	CTCGAGTGTT	CTCAGGAAAA	GGTTCTATGT	AACTGTTTTA	GCAAAAGATG
167881	ACATTGTCCT	TACTATATGC	CAAGTGCTAT	TCTATGCATT	CTATATTTTA	ATGTCCTCAA
167941	AGCTTATAAC	CACCTCCTGT	GTATGTGTTT	TAGGGAGGGA	GGACACTGCT	ATTATCCCCA
168001	TTTACAGATG	GAGAAACCAA	GGTGTGAAGA	CATTAAGTAA	CGTGCCCAAA	ATTGCCCATC
168061	TAGTAAGTGA	CAAAACTCAA	TTTCAACATA	AGCTGGTTCC	TTTTCTTACT	ACTTGGTGGA
168121	AAAGTAATTC	AAATGGGAAT	ATGATCATCG	CAGTTATTAG	CTGCTCCATG	GAGTTTAAGG
168181	AAGAGCTGCC	ATGAGCTGAG	TGGTGGTCAT	GATTGACATG	TCCTTAGAAG	GACTTAGAGC
168241	CTTCATACAA	GACCACCTCT	GCCTCATGGA	GGACAGAATA	AGGAGCCTGA	CACTGGAGAC
168301	AACATTTTCC	TCAAATTTAG	GCAGGACAGA	GAAGGAAAAA	GGACATCAGG	ACTATGCCCC
168361	TTCCTCCATG	CTGCCAACAG	CAAAGTCCCA	CCTTCCTTAA	TATGCTTTCT	GGCAAGAAAT
168421	CTGGATGGTA	CACAAAACCT	CTCCCTCTGC	TTCACCTTCC	ACAACCAAGC	ATTTCCAAAT

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168481 CTTTGACTCT TCTTCCTGAA TCGTGCTTAA AATCTGCCCT CTCCTCCCTT TCTTATACGG
168541 ATAGTTTGAA TTTTACTCCT TGATATTCCCT TTTATCATAG ACATGCCACA GTAGCTGGGC
168601 ACAGTGGTTC ATGCCTCTAA TCCCAGCATI TTGGGAGGCT GAGATGGGAG GGAGACCAGG
168661 GGTTTGAGGC CAGTATAAGC AAGAAAGGCA GACCATGTCT CTACAAAAAA TAAAAAAATT
168721 ATCCAGGTAT GGTGGGGCAT CCCTGTAGTC CTAGCTACTT GGGAGGCTGA GGTGGGAGGA
168781 TTGCTTGAGC CCCAGAAGGT TGAGGCTGCA GTGAGCCGAG ATTGCACCAT TGTACTCCAA
168841 CCTGGGATAC AGAGCAAGAC CCTACCTCAG AAAAAAAAAA AAAAAAAAAA AAAGTAGAGG
168901 TACCAGAGTG ATATTTTCAA TGTCACGTAC CCTTCATTCC CCAAATGAAA ATCCCCCAAT
168961 AGGTGTTCAA TTTTACGTG TCCTTCAGGA GTTACTTCTA AGATGAACCA CTCTCTACCC
169021 TAAATGTCCC TCCCCACCAC CAAAACCAGG GACCTCCAGG CAGACATTTT TGATGGTTTG
169081 TTTTCTTTAC TAGACTGTAG ATACCTAAAA GGTGATGGGT CTTTCTTTCC TGTTTTCAGG
169141 CCCTACTGCA TGGCTTTACA TATTGTGGTT TTTCAAATGA TATTCATGGT GTGAAACAAG
169201 AAAAAATGCG GGTGTTTGGT TTGAGAACAA CCTGTTCTAA AGCAAAAAGA AATTCATCAT
169261 AACACAAATG GATAGAGATA AGAGTCCAAC CATCCCATTG AAGGTCAGGA TGGACAGTCT
169321 AGATAATTGA GCAAGAAATC ATCATAAACT ATTTTTCAGA AGAATGACAT GATGAAAGCT
169381 GTATTTCCAA GTCATAATGT TAGGTTTCAA GTTAAATCAT CTCAGCTCCT GGGGAGCAGG
169441 ATAAGACTTG GTACTTACCA AAGCTCCCGG GCCCACACAC TCACCTTGTA GCCCTGGCAT
169501 ACGTCTTCAA CAAGAGCTGT GGTGTGCCCT TTGTGCTGTG GTGCCCGCTC ACAGCGCCAG
169561 CAGATGAGCT GCCCTCATC TTCGCAAGC AGGTGGAAC TCTCTCCGTG TTCCTCACAT
169621 GACATTTCTT GATCCGTCTC TTTGAGGGCT TCAATGAGGC TTCCAGCTG CTGTGTGGGT
169681 CGGAGGCTAT CCATATGAAA TGGAGCCCGA CACTGGGGAC AGCAGAATGT CTCCTGCCCTC
169741 AGTTGCTTTT GGCTTGGGTT TTTAAAGAAG TCTGTTATAC ACAAGTGGCA GTAGCTGTGT
169801 CCACAGTTGA TGCTTACTGG GTTCGTCATC AGGCTCAGGC AGATGGAGCA GGTGGCTTCC
169861 TCCATCATCT TCTTGGTGCT GGTGGTTGAG GCCATAGCTT TTATTGAAAA GCTCCAATAT
169921 TGGCTCTAGA GATGGAGATG AAGCAGCCAG AATTTTCCAC CGTGATGAAA ATACACCTCA
169981 CCTGCACCTC TATGTGATGA GCTGGCTGCA ACTGACTTCC ATAGGTCTTG AAGGTTTTCC
170041 TTCCAACCCC TATTATCTCA TTTTGTATTG AAGAAAAGAG GACCTAAAAG GAAGAAGTTG
170101 AGGCTGAGGT TGTTTGGGCC ACGTTTGAGA ACTGCAACCC AAGTGCAGAG TTTCAAGTTG
170161 CCCTCATTAG CAAGCAGTTA CAAGTGGTTG TTTAGAGGAA AAAAAGCAGT TTTAAAGCAG
170221 TTTTAAAGTT GTTTGCCAAG AATTTACATT AAAATAGCAT AAGCTTTTGA CTGGCTATAC
170281 ATTGTTCTTT GTATTACAAA TCTCGGGAAT ATGTAGGTAA TAGATGAGGC AGCCAGCTCAG
170341 GAACAAAATG CTTTTAAACA TGGGGTCTTA ACTGAAGACC TATACTCCTG CCTCACTTGT
170401 CCTGATAAAT TTTGCATACC TCACATAGCT CAGACTGCTC TAAATTATTT CATTATTTTT
170461 CTTTTCTCAG TCTTCTAACT TTTTTTTTTT TTTTAAATGA GACGGAGTCT CACTCTGTCA
170521 CCCAGGCTGG AGTGCAGTGA CGCTATCTCG GCTCACTGCA CCTCCGCCCTC CCGGGTTCAA
170581 GCGATTCTCC TGCCTCAGCC TCCCGAGTAG TAGCTGGGTC TACAGGTGTG CACCACTACG
170641 CCCAGCTAAT TTTTGTATTT TTAGTAGAGA TGGGGTTTCA CCATGTTGGT TGGCTAGGAT
170701 GGTCTCGATC TCTCGACCTT GTGATCCACC CGCCTCAGCC TCCCAAAGTG CCAGGATTAC
170761 AGGCATGAGC CACCGTGCCC AGCCTCTTTT TCTTTTCTTA TAAGACAAGT TCTCGCTCTC
170821 TTGCCCAGGC TGTAGTGGAG GGCAGTGGCA TGACCACAGC TCACTGCAGC CTCGACCTCC
170881 TGGGTTTAAG CAATCCTCCT GCCTCACCTT GGCAGAGTGG CTGGGACTAC AGGTATGTGC
170941 CACCATGTCC AGCTAAAGTC TTCTCTCCAG AAAGAAGAAA TGCATTGGAA TTTAGAGGAT
171001 ACACAAACAT CTAGCTGTAT AGCTAATACA GTAGCCACTA TCATGAGTAG GAATTTAAAT
171061 TTAACCTAAT AAAAATTAAT ATGAAAAAAT TCAGTTTTTC TGTTCCAGTT GCCACATTTT
171121 GATTGCTTAA TAGTTGCATG TGACTAGTGG CTACATAACA GCCTCAATAT ACAACATTCT
171181 GTTATCACAG AAAGTTACCT TGGACCAAGT GCTGGGAGAA GCAATGCAGG CTTCTCTACA
171241 AAAGCTGTAA AAGAGAGAAC TCAGGGAGTG TGAAACTCTT TCCTATTCTA GTTAACTTCA
171301 AGAATAATTG TTACCAGGCC AGCACGGTGG CTCACGCCTG TAATCCTAGC ACTTTGGGAA
171361 GCCGAGGCGG GCAGATCACC TGAGGTCAGG AGTTTGAGAC CAGCCTGACC AACATGGCAA
171421 AACCTCATCT CTAATAAAAA TACAAAAAGT TAGCTAGATG TGGTGGTGCA CACCTGTAAT
171481 CCCAGCTGCT CAGGAGGCTG AGGAAGGAGA ATGACTTGAG CTCCGGAGGG GGAGGTTGCA
171541 GTGAGCCCAG ATTACACCAC TGCACCTCAG CCTGGGTGAA AGAGCGAGAA TCTGTCTTAA
171601 AAAAAAATAA AAAAGAATAA TTGGTACCAG AATTACTCTT TGTAATTAGT AGTAACACTT
171661 ATGCAATTGG GTGATCTGTG ACAGATTCCA TTGAAGGAGT ATGGGGAGCT TCACCCCAAT

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171721	ATATGACTCC	CTGGTATAAT	GAGTATTTTG	AATTAAAGGC	CCTTAGAGAT	CAGCAGATGC
171781	TGGAAGAGAC	TTTTCCCCTA	TCTACATAAA	GACCAGTCAC	ACTAGACAAG	AAGAACAATT
171841	GTTTTTCCTT	CCAACCCCTA	TTATCTCATT	TTGTACTGAA	GAAAAGAGGA	CTAAGAATGT
171901	AACCAGACCT	AATCAGACAC	TTTCACAAAA	TAATGTCTGT	CTCTCAGGCT	CATTCAATTT
171961	CCAAAGAGAA	CCATTTACAA	GTAAACTCT	GTTCCCTCCAT	TCATTTCATCC	TCCCAAATAT
172021	TCATTTATTC	TCCCTAGTAA	TCATTTACTG	CCCCTCAAAG	AATTACCTAT	ATTCTCCTGA
172081	TATCACCCTT	CCCCTCTGAA	ATAAATATGT	ATACATGTAT	AAACGTTATA	CATACATATT
172141	TATACAGTAT	ACATACATAT	TTATACATAC	ATACATATGC	ATACATATTT	ATATTTATGT
172201	ATTTATACAT	AAGTATTTAT	AAATAAGGCT	ATATAAGTAT	CTACCCCAT	TGGCAGAGGG
172261	GGTAATCACT	CTGTGATTCT	AGCCCATGTA	CTTGTTAATA	AATTTGTATG	CCTTTTCTCC
172321	AATTAGCCTG	CCTTTTGTGA	GTCGATTTTT	CAGTGAACCT	CAGAAGGCAA	AGGGGAAGTG
172381	TTCCCTTGGC	TCCTACACCA	TCATGACAAT	AAAATTTGAC	TCCACCTCGA	CCCCCCCCAT
172441	CCCCACAAA	GAACAACAAC	CAACACTGGT	TAATAAGGTC	GGTTGTTTTT	TGTTTGTGTT
172501	TTTGTTGTTG	TTGTTGTTGT	TGTTGTTTTT	GCTTTCAGGA	GCAGAGGTAT	AATAGGCAAA
172561	AGAAAGAGAA	AGGAGAATAG	TGAATACCTC	TTCTGCAGAG	AGGGGTGCCT	AAGTGGGACT
172621	TCCCTGGCTA	ATAACGTCTT	GCTAGAGACC	CAACCAGGAG	GATAATGGAA	GCAATCAAGG
172681	CAACCAGAAC	AACCAGAAGA	ACCAGTTTAT	CCTTTTTGTG	CCCTCTCCCT	AACTGAGGG
172741	AATAAGAATT	GGAAAGAAGG	CTGCAGAGCA	GAGGGTTTGC	TCCTGAGGAG	CAGTTATTTT
172801	TATGGGATCA	GAGCTCCTGC	AGAACTGGGG	AGTTTACTTT	TACTATCTCT	TCTCCAGGAC
172861	AGGACCTATC	TCAAGAGACA	TGTTCAAGAT	GATTGCAACA	TAAAGAGTTT	GCAGACCCAA
172921	GGAGGTAGGG	AAGGCAGAAA	GAAGATGGGG	GAGGCCAGGG	ATAGGCAACA	GAGGAGTGAC
172981	CAGGAGCGAA	AAAGCCTGCC	TCTTCTGAGA	ACCTAGCTGG	GCTCTCCCTG	TACCCCGCAT
173041	CCCTCCCCCC	CGCCCGCCCC	CACACCCTA	CTCCTGGGAG	CTCCTCTAGG	ACAGGGGCAG
173101	AGTCAGGAGG	AAGTTTGAAG	AGTGCCTAGA	ATAAAAAACA	GTAATTTAAC	TACAATTACC
173161	GGGTAGGCTG	TTTTCTCTCT	ACAATTTGAT	CAGTCTCTTG	AAGCCACACA	GAATTTCTTC
173221	TGAAGACGTG	TATTCCTTGG	CAGGCTATTT	CCTCCAGTGA	TACACCAGGC	CCCTCTCTGC
173281	TGGGGTCACT	GCTCTTCTGG	GGAGATGGGG	CTCCCTCCT	TCCAAGGCTC	CAGGGTTCCT
173341	GTCCTGGGCC	CCACTCATCT	AAGTTCTGAA	TCTTCTGAGA	TTTGGTGTA	AGTCTGGTGA
173401	AAGAAAGAGC	AGGAAAGAGG	TGAGAGCTGT	AAAACAAAGA	AAGTCCTGAC	CATTTTCAGA
173461	GTTGGAGGGG	CCCTGCTGTC	ACGAAATATA	TTCCCCACCC	CACTTGCCAT	CAGTACACAC
173521	TCACATATCC	ACTGAGAAAA	CCTTAGCCTG	GACCTTTTCC	GTAACCTTCA	CTGCTCAGAC
173581	ACTTACATAT	TCGCTGCTAG	TCCCCTCTGT	TGCTGCCACT	TCCTGGGTCA	GGAAGTTAAC
173641	TCAGACCGGA	TTAAACTGAG	AAGTGAAACT	ACTGTGGGAG	GCGGGGCTCA	TAAGATTTAG
173701	GAGAAACTA	GTGACGTTGT	TCATATCATT	TGCACTCCGC	CTCTCCGGTA	AAGGAGGGGG
173761	AAACGTAGGA	AGAAATATAC	CTTCTTTTAC	AGCAATAAAA	AGAAGGAACC	AATTAATAAC
173821	CCTGTAAACT	ATCATGTGAC	CCCAACACAG	AGTATCTAAA	AACAGGAAGC	CTGCAGAGGT
173881	TCAGTTCACA	GACTCTGATT	TGAGATCTTT	CTACTTTTGC	CACCAACTCC	CTTGGGAGTC
173941	CTTAAGCCTT	CCTAGCTGAT	GTTACTTCTT	TTGCTATTTA	TGGGTTGCTT	GTTGTTCTAT
174001	AACTGCTCTG	AAGGGTGTGG	TGGAAAAAGG	GGTGGTAACA	GCAGTAGGAC	TCATTGGCAT
174061	CACAAAATTC	ATCTGAGTCA	GCTTCTTATT	CTTCTCTGTC	CCGTTCTGTG	TCTTGTTTTT
174121	CTCCTTGCTG	TCCTTCTGCA	GGACTCAGAT	CTTCTTCAAT	AGCGAGGGTC	AGCCAGGATA
174181	GAAAATGGGA	GTCAC TAGTG	GCCCAGCAGT	GAGTGCCCCC	AGCTTAGAGC	TGTGTGGGAT
174241	CCCTGGGACC	ATCACTCTGC	TTTGTGCTTT	GTGGAGAAAA	GGCTGTGGGG	TCCAGGGTCA
174301	AGTCCTTAAT	GACTTAGCTC	CAGCTTCTCC	ACTTCAAAAT	GAAAGGAAAA	GTACTATCAC
174361	CACCCGTTAG	AATTATTATT	TCATGGGGAA	AAAAGATGGA	TTACTATCTC	ACAATAAGAG
174421	CTTGTCACAT	TTATAAGTCT	CAGGTGTAAG	AGGCATTTAT	GATAACAACA	TAATAAATGC
174481	TGGCTTAAGT	AGATGCAGTG	GTCCAAGGGA	ACCAGTAAGG	GGAGCTCAGG	ACACAGGTGG
174541	GAGGAGAAAT	TAAACTTGAA	TTCTGGGAGC	CACCTGGCCTG	TCTGGGCCCC	TGGCCTGCCT
174601	GCTGACCCTG	ATAGCCAATG	GAACATGGAG	TTTGGCCCAG	CTGCAATCCC	TCTGGTCCAA
174661	CTACTCAAAA	TAAAGGCAAG	ATTGGGAAAC	ACGTTCCCTT	CTTCTATAC	CAAGCAGAAG
174721	ACTCTTCAGC	ACTGCACCCT	CCTGGGTGCT	CACAGAGCCT	TCTGTTGTTT	TGCCACCTAC
174781	GATTCATCAT	GCCCTGGCAT	GATGGTTGCA	GACCCCATGC	ATAGCATGGG	ACATTCTACT
174841	CCTGAGGCAA	CCAGCACACA	GAGAGAGGAG	AAAGAATGAG	CCCCTGAATC	CTTGGTCCCA
174901	CGATGAGTCC	TTGCAGATAT	CTACAACCTT	CATTGTTGTG	GATGTGACTC	TGTACCCAGG

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174961	CATGGCTCAT	TCCAGATCTG	TCCTATTGTC	AGAGGTGTTC	AAACCAGAAT	GACTCCATTT
175021	TGAATGGGGG	CTAGGTAAAA	TAAGGCTGAG	ACCTACTGGG	CTGCATTCCC	AGGAAGTTAG
175081	GCATTGTAAG	TCACAGGATG	AAATAGGCAG	TTGGCACAAG	ACACAGGTCA	TAAAGATCTT
175141	GCTGATAAAA	CAGGTTGCAG	TAAAGAAGCT	GACCAAAACC	CACCAAAATC	AAGATGGCAA
175201	CAAGAGTGGC	CTCTAGTCAT	TCTCATTGCT	CATTATACAC	GAATTATAAT	GTGTTAGCAA
175261	GTTAGAAGGC	ATTCCCACCA	GCTCCATAGT	GGTTTATAAA	TACCATGGCG	ATGTCAGGAA
175321	GCTACCCTAT	ATAGTCTAAA	AAGGGGAGGA	ACGCTTG GTT	CTGGGAATTG	CCCACATCTT
175381	TCCCAGAAAA	CATATGAATA	ATCCACTCCT	TGTTTAGTAC	ATAATCAAGA	AATAACTGTA
175441	AGTATCTGTA	TTAGTCCATT	TTCCACTGTC	TGATCCAGAC	ATACCTGAGA	CTGAGTAATT
175501	TATACCAGGA	AAAAATGTTT	CATGCTCTTA	CAGTCCCACG	TGTCTGGGGA	GACCTCACAA
175561	CCACAGCAGA	AGGCAAGGAG	GAGCAAGTCA	GGTCTTACAT	GGATGGCAGC	AGGCAAAGAG
175621	CTTGTGCAGG	GAAATTCCTT	CCTATAAAAC	CATCAGGTCT	CATGAAACTT	ATTGACTATC
175681	ATGAGAACAG	CAGTATAAAT	TACTCAGGGA	AAGACCTGCC	CCCATGATTC	AATTACCTCC
175741	CACCAGGTCC	CTCCCACAAT	ATGTGGGAAT	TTAAGATGAG	AGTTAGGTGG	GGACACAGCC
175801	AAACCATATC	AGTATCCTTA	GTCCAGAAGC	TGATGCTCTG	CCTGTAGAGT	AGCCATTCTT
175861	TTATTCCTTT	ACTTTCTTGC	TTTCACTTTA	CTGTGTAGAC	TTGCCCCAAA	TTCTTTCTCA
175921	CACGATCTCT	AAGAACCCTT	TCTTAGGGTC	TGGGTTGGGA	CCCCCTTTCT	GGTAACACTA
175981	TCAAAGGATC	AGGAAAAGGA	AGCTAGTGAA	TGCTAAAAAG	GAAACAAACT	ACCATTACCA
176041	ATAATAACAG	CAAGACAAAA	GCAAAACGGA	TTGTGACAGC	TGTCCCCTCT	CACACTGTGT
176101	TCCCATTGCA	GGAAGGAGGG	GCTGGTTCAT	GCACAGAGTG	GCCAATATTA	GAAGCAGAGA
176161	GGGGGTGCAG	ATGAGACTTC	AGGAATATGT	TGACAAAGGC	AGGCCTAGGG	AGAAATCAAC
176221	CTGAACATATC	CCCAAGGAGG	AATGCATTAT	CTCTAATATG	TAAAGTTAGG	CTTGATCCTG
176281	TGATTATGGG	ATATAGGAGT	CCAAAGACTC	ACAATGGGAA	GTAGGTCACT	AGAGTCTCCT
176341	TCAGAAGCTC	TGTA CTGTGT	GTTCCCCTG	TGGGCAAGAG	TCAGCACTCA	GCTATTCTTA
176401	GAATGCCCTT	CCTCAACTCC	TTCAGATTTT	GCCTCTCAAC	TAACCCTATC	CTGACCCTT
176461	GTTAGCAAGT	GTACCCCTCT	CTCCCTCCCA	AACATTTTCA	AATCTATTTT	GTTCCCATGG
176521	CACCTATCAC	TGAATATTTT	ACTAATTTAT	TTTGTTTAGT	GTTTGCTTCC	CTCATGAGAA
176581	TGCAAAGGGA	TGGATTTTTT	TCAATATTGT	TCACTGATGA	ATCCCAGTAA	CTAGAATATT
176641	TCTAAGCATA	GTGATGTGCA	TTAAATCAAA	GAGTAACTTT	CTGAATTGCA	CTAAACACAC
176701	ATCACAAGAG	GTGTGTGCAC	ATATGTGTCAT	GATGCACGTA	GTGTGGTGTG	GGTGTGTGTG
176761	GGGGTATGTG	GTACTGTGTG	TGCTGTGTGT	GGTATGTGAT	ACATAGTTTG	TGTTAGTGTG
176821	ATGCATGTGA	TGTGGTATGT	GTGTGCGTGT	CCATACATAT	TAGGGGTGGC	GGGGATGTTA
176881	ATATGTCAAA	TGGTACTAGA	AAGTATCAGA	ACTCATGGTG	CTTACTGGTT	TCCCAGAGAG
176941	CTGCTTCTCT	CCCACCTGTA	GGATATACTG	ATGGTTTGGA	CAGAGAAGAA	ATAAAAAGAA
177001	GGCTGTGACC	TACTGGGCTG	AGGAAATAAA	AACGAAAGTA	AAAGAAGAGC	TGGGAAAAGA
177061	GAGTGGAGGG	GCCAAGGGAA	ATTTCCCTTT	TGGCTTCTGG	GGAAACTTTG	CTGAAAAATC
177121	AACTCACAAA	TTTATTAACA	TGTACACAGG	GAGAACCATA	GAATGATTAT	CCACTTCCCA
177181	AGAGGGCTTA	AAAGCTTATA	TATTATCCTG	GCAAAACAGA	TTATGGGAGG	GGAAGAAGAG
177241	AAACTCTGTT	GATGGGATTA	CTGTTGCGGA	TTTTTGCTCC	TTGCTCAGC	TAGGTCCGGG
177301	TTTTTGTCTC	ACAGCCAGGA	AGAATTAGGC	ATGCAGCCAT	CAAAGAATGA	GTGGAGTAGA
177361	ATTTATTAAG	TGAAAGGAAA	GCTCTCAGCA	AAGACAAGGG	TCCTGAAAGC	AGATTCTTGG
177421	TTTGCTCTTC	ACAGTTGAAT	ACTAGGGCTT	AAGACTCAAA	TTCTTGACAA	CTCCACCCTG
177481	TCCTACCAGT	GCATGCAGGC	CTTTAGACTG	AGCTACTCCA	TATTGATTAA	TTTCTGTAAC
177541	TGCGCATGTG	TTAAGGAAAG	GAATCATCCA	CTGCAGGCAT	GTTTAGGCAA	GCCCCCTGTG
177601	CAAGTTCCCT	TATCTGCACA	AAACATCCGG	TGTAAGCACT	TGTGGGGCAG	GTCAGAGGTT
177661	CTCTGGGTAC	CATTCCCTTA	CTGTCTGCCT	AAAGCAAGCT	GGCCAACCTC	TTTCATTACT
177721	AGGGAGAGTA	AGTAGATCAG	GGAACAGAGA	TTAACTTGAA	CATTATCTTG	TGAAAGTCCG
177781	TTCGGGCATG	GTTACATTCT	TGGTCTTACA	GGAAGGGTAA	ATAAAAATAA	TTGCTCTTTT
177841	TGGTGGGTCT	GGATCTTAGG	TAGATAAAGA	AACTTTAATT	CCACGATGTG	TTTTGGTAGG
177901	GATAGTTGGT	GGCAGGGATG	TCAGAGAGAC	TTTGAGGCTT	CTTCAGTTCA	ATATGACCAA
177961	GGGCCATATA	TTAGGGTATC	AATTTCTGAG	CCCCAACAG	AGCTTAGGAG	AGATGTGATA
178021	GCATCACAGT	GTGAAAGCAA	TTTTTTGTCT	GTTTTTAGAG	ACAGGCTCTT	GCAGTCTCAC
178081	CCTGGCTGAA	GTACAATGGT	ACGATCACAG	CTCACTGTAA	TCTTGAACCTG	GGTTCAAATG
178141	ATCCTCCCAT	CTAAGCATTT	CAAAGTGTG	GGATTACAGG	CATGAGCCAC	GGTACCCAGC

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178201	CTGAAACTGC	ACCCACTTTC	TGATAAACTT	TTCAAATGAC	TAAAGGGGAG	AGAGTAAGCA
178261	CTACTCAGAG	GTAGGAAGAA	AGGACACAGG	ATTATAGGAT	TAAAACAACA	ACCACCAAAA
178321	AAAACCAGAC	CGGTGTGGTG	GCTCACACCT	GTAATCACAG	CACCTGGGGA	GGCTGAGGTG
178381	GGGGGAGTCA	CTGGAGGCCA	GGAGTTCGAG	ACCAGCCTGG	CCAACATAGC	AAGACGCTGT
178441	CTCTATTAAA	AAAAAAAAAAT	ACCTGCCTTG	AGCTAATCAG	AATCATGGAC	CCTGACAAAG
178501	GATGTCCCAA	AGTAAGTCTT	AGCATTTTTT	TTTTTTTTTT	GAGACAGTCT	CGCTGTGTG
178561	CCCAGGCTGA	AGTTCAGTGG	CGTGATCTCG	GCTCACTGCA	ACAGCTGCCT	CCCAGGCTCA
178621	AGCAATTCTC	CCTGCCTTCA	GCCTCCCAAG	TAGCTGGGAT	TACAGATGCC	CACCACCACG
178681	CCTGGCTAAT	TTTTGTTTTT	TTTAATAGAG	ATGGGGTTTT	GCCATGTAA	CCAGGCTGGT
178741	CTTGAACCTC	TGACCTCAAG	TGATCTGCCC	ACCTTGCCCC	CTCCATAGTG	CTGGGATTAC
178801	AGGCGTGAGT	CACTGCACCC	GGCAAAGTCT	TAGCATTCTT	TACAAACAGT	TTGTACCCGT
178861	ATCTCTAAAA	GGGAGTAGTG	AATTTACACC	CAAAATATGG	CTTCCTGATA	TAATGAGTAT
178921	TTTGAATGAA	AAACTCTTAG	AGATCAACAG	ACACTAAAGA	GACTTTTCCC	TAGGTACATA
178981	AAAATAGGAT	GGCCCCACCA	GCGAGAACAA	TTGTTCTTTT	CTCCCTCCCT	GTTATCTCAT
179041	TGTGCATTAT	AGGAAAGACC	AAGAATGTAA	CCACACCTGA	ACAGACCTTT	TTATAAGATA
179101	ATCAGTCTCT	AAGCATCATT	TAAATTCCAA	GGAGAACTAT	TTACAAATTT	ATCTGTTCTT
179161	TGATCCAATT	AGTCTCTCCT	GGTAGTTACA	TATTGCCCTT	CAACAGAATT	CCTCTTCTTC
179221	TGTTTCCCAT	AACCTATTTT	GCAAGGATCA	AGCCCCTGTT	ACTTCTTCAA	CTTCAAGTTG
179281	GCATATAAGC	TTCTAAATTC	CACTGGGATA	TTGGTACTAT	GTGCATGAGG	AGAACCACAG
179341	AGTAATTAAA	TTGTAAAGCC	TTTTATCTTA	TGAATCTGCC	TTTTTTTGTG	TTCAATTTTC
179401	AGCAAACTT	CCAAGGGCAA	AGGTATAAAA	CAAAAATAAA	ATTCTAAAGC	CCCCCAACCA
179461	TCTGAATAGA	CTTCTCTTTC	AGTCAGGCTT	CTTAAAATGT	AACCTGAAAG	ACTGGCTCAG
179521	GCCATTAAAG	GAAGTGGGGG	TTGAACATGC	CTCATTATTC	CTCTCTGGCA	TTAACATCAA
179581	CACAGCTTTT	AAGTCTGATA	AGAAACATTT	TACAACCTAT	TCTCTCTGAA	GCCTGCTAGC
179641	TAAAAACTTC	ATCCCATAGT	ACAACCTTGG	TCTTCACAAC	CTGTTATCAC	AACCTAGTGC
179701	TCCTTTCTAT	TAATCCCAAA	TCTTTATACA	AACTCAACCA	ATTGTCATCA	CCTCCACCCC
179761	ACTCCTCCGC	TGCTTCCAGT	TGTCCCGCCT	CTCTGGACCA	AACCAGTGTA	CATTCTTAA
179821	ACGTATTTGA	TTGATGTCCC	ATGCCTCCCT	AAAATGTATA	AAGCCAAGGT	GCATCCCAAC
179881	CACCTTGAGC	GCTTGTTCTC	AGGACCTCCT	GAGGGCTGTG	TCATGGGCCA	TGGTCACTCA
179941	AATTTGGCTC	AGAATAAATC	TCTTCAAATG	TTTTACAGAG	TTTGGCTCTT	GTCATGACAC
180001	AGATGACTGC	TTCACTGAAG	CCTGCTCTGG	AAGTGAGTGG	GGGTTTTGCA	AGGATAATTT
180061	TCCCCGGATA	GCCCCAGAAG	CAGCTAGTAA	TAATACACTT	AAAGGTAGCT	AAAATGCATT
180121	GAACACTTGT	TTTGTGCCAG	ACCTATGTCA	ACATTTGCTT	TGTGCCAGGC	TTATGCCAGT
180181	ACTCCTGATT	TGTTAATACA	TTCTAAATAA	AAATTCTGGA	GTTTCAAATA	TAATAACTGA
180241	AAAACAGAAA	ATAAATAAAA	ATATATAATA	ACTGAAATAA	AAATTTACTA	AGGCTGGGGA
180301	TGGTGGCTCA	CTCACACCTG	TAATCCTGTT	ACCGGAAAGG	GGTCCGTCCA	GATCCAGACC
180361	CCAAGAGAGG	GTTCTTGGAT	CTCACACAAG	AAAGAATTCT	GGCGAGTCTG	TAAAGTGAAA
180421	GCAAGTTTAT	TAAGAAAGTA	GAGGAATAAA	AGAACGGCTA	CTCCATAGGC	AGAGCAGCTC
180481	TGAGGGCTGC	TGGTCGCCCA	TTTTTATGGT	TATTTCTTGA	TTATGTGCTA	AACAAGGGGT
180541	GGATAATTCA	TGCCTCCATT	TTTTAGACCA	TATAAAGTAA	CTTCTGACG	TTGCCATGGC
180601	ATTCGTAAAC	TGTCGTGGCG	CTGGTATGAG	CATAGCAGTG	AGGACGACCA	GAGGTCACCT
180661	TCATCGCCAT	CTTGGATTTC	GTGGGGAGCA	GTGAGGATGA	CCAGAGGTCA	CTCTCATCGC
180721	CATCTTGGAT	TTGGTGGGGT	TTAGCCAGCT	TCTTTACTTT	TTTCTTTTTT	TTTTTTTTTT
180781	TTTTTTTTTT	GCCCAGGCTG	GAGTGCAGTG	GCACGATCTC	AGCTCACTGA	AACCTCCAAT
180841	TTCTGAGTTC	AAGCGATTCT	CGTGCCTCAG	CCTCCCAAGT	AGCTGGGATT	ACAGGCATGT
180901	GCCACCACAC	CCAGCTAATT	TTTATATTTT	TTAATAGAGA	CCGGGTTTCG	CCATGTTGCC
180961	TACGCTGATC	TCCAATCCTT	GCGCTCAAGC	CATCCAGCCA	CCTTAGCCTC	CCAAAGTGCT
181021	GGGCTTATAG	GTGTGAGCCA	CCCCACCTGG	CCTAGCCGGC	TTCTTTACTG	CAACCTGTTT
181081	TATCAGCAAG	GTCTTTATGA	CCTGTATTTT	GTGCCCACTG	CTGCTCTCAT	CCTGTGGCTT
181141	ACAATGCCTA	ACTTACAGGG	AATGCAGCCC	AGCAGGACTC	AGCCTTATTT	CACCCAGCTC
181201	CTATTCAAGA	TGGAGTCTTT	CTTGTTCAAA	TACCTCTGAC	AAGCCCAACA	CTTTGGGAGG
181261	ATGACACAGG	AGGATTGCTT	TAGCCTAGGA	GCTCAAGACC	AGCCTGGGCA	ACACAGTGAG
181321	ACCCCATCTC	TAAAAAATAA	AAATACAAAA	AAATTAGCCA	GGCATGATGG	TGTGTGCCCTG
181381	TAGTCCCTGC	TACTCAGGAG	GCTGAAGTGG	GAAGATGGCT	TCAGCCAGG	AATTCAGGGC

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181441	TGCATTGTCA	GAGGCATTTG	AACCAGAATG	ACTCTATCTT	GAATAGGGGC	TGGATAAAAT
181501	AAGGCTGAGA	CCTGCTAGGC	TGCATTTCCA	GTATGTTAGG	CATTCTTAGT	CACAGGATGA
181561	GATAGGAAGT	CAGCACAAAG	TACACATCAC	AAAGACCTTG	CTGATAAAAT	AGGTTGTGGT
181621	AAAGAAGTTG	GCCAAAACCC	ATCAAAACCA	ACATGGCCAC	CAAAGGGACC	TCTGGTTGTC
181681	TTCCTGCTC	ATTATATGTT	AATTATAATG	TATTAACATG	CTAAAAGACA	CTCCTACCAG
181741	CATCATGACA	GCTTACAAAT	ACTGCGGCAA	TATCTGGACT	TTACCTTATA	TGGTCTAAAA
181801	GGTGGAGGAA	CCCTCAATTT	TGGGAATTGT	CCACCCCTTT	TTTGGGAATG	TCATGAATAA
181861	TCCACCCCTT	GTTTAGCACA	TAATCCAGAA	ATAACTATAA	GTATGCTTAT	TTGAGCAGAC
181921	CACGCTGCTG	TTCTGCCTAC	AGAGTAGCCA	TTCTTTTATT	TCCTTACTTT	CTTAATAAAC
181981	CTGCTTTCAC	TTTACTGTAT	GGACTTGCCC	TAAATTCTTT	CTTGTGTGAG	ATCCAAGAAC
182041	CCTCTCTTGG	GGTCTGGATC	AAGACCCCTT	TCTGGTAACA	TCTTTCTGGT	GACCACGAAG
182101	GGACAATACT	GAGGAGACTC	TGAAGCCAAA	GGAAACAGAC	TACAGCACC	ACTGGCTGAC
182161	TTTGGGTAA	TGGTGGAGTC	CCCGGGTAAA	GGATAGGATT	GGGTTAGAGG	TGCAACTTAG
182221	GGGAGATAGG	GTCTCTCCTA	AGACAGAGAG	CGTTTCAGTC	CGCTCTTAAT	AAAGGGCAAG
182281	AATGCTTGAC	CGAACTTGGG	TTTGAGACCC	AACTTAGGAA	GGCTACAGTC	CTTAAGATTT
182341	AAGGGGTAG	AGGCCCCCTC	CAGTAAAGTC	TCTCTTGGTT	AAAAACGGAT	TTAGCATTAG
182401	GGGATGTTAA	CTGCTATTCT	GTTGTATTA	ATCTTCCCTG	TGCTCTTTG	TGACAGCTAT
182461	GGGTGACAGG	ATTAGGCATG	TACAGGATCA	CGGGACATTG	GGAACTTTTC	TTCTCTCCAA
182521	AAGGGGAAGC	TTGACAGCTG	ATAGGACTGT	TGGAAAAGAT	CCCTTTGCTA	TGACAAGCAG
182581	CCGCCTGAAC	TTTTGATTCA	GTGTTGCTGC	AATGGGTGGG	TCTTTCTCTG	GCCTCTGTGA
182641	ACTCCTCACC	TTCCCCACCT	CACCACAGGC	AATGCTTTTC	TCCCTTTCTC	TCTTTTCTCT
182701	TTTCTGTCTT	TTCTGTTACT	TGAGACAACC	ATCTTGCCCA	GAGACCATAT	GTTGAAACTC
182761	CTGGTCAGAA	GTTTGATTAA	AGATGAAAGG	GCCTATCTGG	GGGCAAGTTT	GAGCCTTCCC
182821	AGTTAGATAT	TGGGTGCTAA	GTGGAGTGGC	CAATGTCTAT	GTTTTGTGAC	ATGTATATTG
182881	CTCTGGCTGA	AATGGAAAAC	GTAAATTTGG	TTACTTTATG	TGGCCATTGG	GCAGCATCTT
182941	ACAAAAGTGA	GAGACATTTA	TTTGCCTGTG	GTTCCATGAA	ACAGAAAAAA	GTTGGTTTTT
183001	CTTTGTGTCG	TAGCTTGGAC	CCAAGGGCTT	TGCAGTGAGC	AAGGTTGCTA	GCGCTGCTCA
183061	GTGAAAAGAG	ACCCAGAAAC	CTGGCATGCC	AGCAAAAGGG	TAAAGATTTT	TTACCAGTCA
183121	GGCTTCTGGC	CTCTCTCTCT	TAGTGAAAAC	TGAATGAATG	GTA AAAATCA	CTGTTTATCA
183181	CCTCTGTAAA	GTTTTGATTA	ATGGGAACAA	GGATTTGTGG	GGCTAGTCTT	AAGCTGTAAT
183241	GAATCTGGTA	TACTTTGTGA	TATCAATTTG	TCTTTCTGTA	TTACTCTGTC	ATAAAGAGGA
183301	ATATGGTAGG	ATAGAACATG	GGCTTAGGAC	TCCATAAGCC	TGCTGTTCAA	GCCAGCCCAG
183361	TAAACTGGTC	CGTTGCAAAG	TTTATTACAG	GTCCCTGGAA	AAAAAAAAAA	TTAAAACTG
183421	GATGAAGTTT	CCTTCTCATC	TTGTTTTATG	TCCTTTGGAG	CTTCACCTTG	TAACCACGTG
183481	GCGGTACTTT	CTCTTGGTCT	CTGCCATCCA	GGGAACAGGA	ATTTTGGGGT	TTATGTAATA
183541	GTAACTCTA	AAAATTATCT	CAAGCCATTG	CAAGCTCAA	ATTGGCTGCT	CTGGACCCCT
183601	TCTGGGAAGG	GCAATGGAAA	CTAACCAGTG	TTGTAGCTCA	GCAGCTAAGG	ATTTGTGATT
183661	TTATAATGGC	GGCCAAGGTT	CAATCCTGGC	TTAGGGAATG	AGTACTTTCT	GATTGATATC
183721	TGTGTGACCT	TTACCATTTG	TTGATTCTGT	TCTCTTCCCC	TCCACACACT	GTCTTGAGTT
183781	TTCTCTCTCT	TGAGAACCTG	GGAGATTATC	TTTGGTAAAG	TTCAAAAGCC	AGAAATAATG
183841	GCCGTGTGGG	ATGGCTAAAG	TTGAGTAATA	AGAACTTAA	AAGGACTCCT	TTTTTTTTTG
183901	CTTTAGAGTG	CTATGGTTTA	TGGTTAAAAG	CTTAATTAAA	AGTGGATATT	CAATCTCTAA
183961	AAGCCTGGGA	CTCCTTGGGA	AAAGCAGAGG	AGGCACCACA	GACCCCATTT	TGGGAAAACC
184021	TCTGTTTTCC	TCATGAAACC	CCAGGAACTG	GAAGTGGATA	GATCCTTCGC	AAAATCTAAG
184081	GCTCTGTTTG	GCTTTGCATT	ATGTTATCTG	ATGTTTTTGA	CTTTTGGGGG	TATCAGAAAT
184141	TACTTTGCAT	TATGAGGGAG	ATCTGGTGTG	TAATAACCAG	GTAGGAAATA	TACTTCTGGG
184201	GATAGCTAAA	GGCAAATATA	GGTGAATACT	TGGCTATTTG	CACTTTTGGA	TCACAAGAAG
184261	CATTCTCTTG	ACTACCTAGA	AGGTATGGAA	ATGTCTCCAT	CCCCACCGAG	AGATAAGATT
184321	CCCAGGGGAG	ATGGCTGATC	CCCCAAAAGA	GGGCTGATTC	CCTCTTTTGG	GATCCAGGAT
184381	CTGGATATAA	AATGGGACCC	TGGCCAGGCA	CAGTGGCTCA	CGCCTGTAAT	CTCAACACTT
184441	TGGGAAGCCT	CAGAGTTATG	AATGCTCTAC	CATACTGACA	CTTTGTGACT	GAGCTCCTCT
184501	CTACCCTGGA	CACAAGAGAC	CCTAATAAAT	AGACAGGAAT	ATCATTGCCC	CTATTTAGTC
184561	TGAAGAAGTT	ATAGAAGATG	GATCTTTATC	CCACTGCAAT	CCTTAGGATT	AAGGGTTCCC
184621	TGGTAAAAGG	GAGTGGGAAA	ATATGTCAGA	GGCATTTGAA	TCAGAGTGAC	TCCATCTTGA

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184681	ATAGGGGCTG	GGTAAAATAA	GGCTGAGGCC	TGCTGGGTTA	GGTTAGGCAT	TCTAACCAGG
184741	AGTTTAGTCA	CAGGATGAGA	TAGAAGGTTG	CACAAGGTAC	CCGTCACAAA	GACCTTGCTG
184801	ATAAAATAGG	TAACGGTAAA	GAAGCCAGCT	AAAGCCCACC	AAAACCAACA	TGGCCACAAA
184861	AGTGACCTCT	TGTCATCCTC	ACTGCTCATA	TACACTAATT	ATACTGCATT	AGCATGCTAC
184921	AAGACACTCC	CACCAGTGCC	ACGACAGTTT	ACAAATACCA	TGACAACATC	TGGACGTTAC
184981	CTTATATGGT	CTAAAACGGG	GAAGAACCCT	TAGTTCTGGG	AATTGTCCAC	CTCTTTCCTG
185041	AAAAATTCTT	GAATAATCCA	TTAGTTTAGC	ACATAATCCA	GAAATAACTA	TACGTCTGCT
185101	TATTTGAGCA	GTCCATACTG	CTGCTCTGCC	TATGGAGTAG	CCATTCTTTT	CTTTTATTTT
185161	TATTTTITAG	ATAAAGACTC	GCTCTGTCC	TCAGGCTGGA	GTCTGGAGTG	CAGTGACGTG
185221	TTTTGGCTCA	CTGCAACCTT	CACCTCCCCG	GTTCAAGCAA	TTCTCCTGCC	TCAGCCTCCC
185281	AAGTAGCTGG	GACCACAGGT	GGGTGCCACC	ATGCCTGGCT	AATTTTTGTA	TTATTAGTAG
185341	AGATGGGGTT	TCGCCATGTT	GGCCAGGCTG	GTCTCGAACT	CCTGGCCTCA	AGCGATCCAC
185401	TTGCCTTGGC	CTCCCAAAGT	GCTAAGATTA	CAGGCATTAC	CCACTATGCA	TGACCCATTG
185461	TTTTATTTCT	TAACTTTTTT	TTGTTTTTTT	GAGACAGAGT	CTCACTCTGT	CACCCAGGCT
185521	AGAGGCTGGA	GTGCAGTGGT	GCGATCTTGG	TTCCTGCAA	CCTCTGCCTC	CTGGGTTCAA
185581	GCGATTCTTC	TGCCTCAGTC	TCCTGAGGAG	CTGGGACTAC	AGACATGTGC	CACTACACCC
185641	AGCTAATTTT	GTATTTTTAG	TAGAGACAGT	GTCTTGCCAT	GTTTGTGAGG	CTTGTCTCGA
185701	ACTCCTAACC	TCAAGTGGTC	TGCCTGCCTC	AGCCTCCCAA	AGTGCTGTGA	TTACAGGCAT
185761	AAATCACTGC	GCTCGGCCCT	TCTTTACTTT	CTTAATAAAC	TTGTTTTTAC	TTTACTGTAT
185821	GGACTAGCCC	CAAATTCCTT	CTTGTGTGAG	TTCCAATAAC	CCTTTTGTGT	GTGAAAGAAT
185881	TTATGGCTGC	TGTTCAAGCT	GGAGCAAGCT	GGAGCTCATG	CTGCTGCTCA	GACTGGAGCA
185941	TGCGTGATCT	GTGATCCAG	TAAGAGGATC	ATGGTCACTC	CAGCCTGAAC	GACAGCATGA
186001	TATCTCATCT	GTAAGAAAAA	AAAAATTACT	AGAGGGCTTT	AACAGCAAAT	TTGAGCAGCA
186061	AAAAGAAGTA	ATCAGTGAAC	TCAAAGATAG	GTCAATTGAA	ATGATCTACT	CTGAAAAACA
186121	GAAAGAAGAC	AGAATGAAGA	AAAAGAAATA	GAGCCTTAGA	GACAGGGGAT	ACCATCAAGC
186181	ATACTAATAT	ATGCATAATG	GGACTCCTAG	AAGGAGAAAA	GTGAGAGGAC	AGGGAGAGAG
186241	AATGTTTGGG	GAAATAATTT	CTCAAAGCTT	CCCATGTTTG	GCAAAAAAAC	ATTAAGTTGC
186301	ATACATATTT	TAGGAGCTCA	ATGAATTCCA	AGTAGGATAC	ACTCAAAGAG	ATCCATACCT
186361	AGACACATCA	TAATCAGATT	ATCAAAAGAT	GAAGAAGATG	AATCTTGAGA	GCAGAAAGAA
186421	AGGAACAATT	CATCACATAC	AAATAGTACT	CAAAAGATGT	CTGGAGTAGG	TATACTAATA
186481	TCAGACAAA	TAAACTTTAA	GATAAGCATT	GTTATAATAA	ATAAAGAAAG	GTATTTTGTA
186541	ATGATAAAAG	TGTCAATTCA	TCAAGAAAAAC	ATAACATTAT	AAACATACAT	GCACCTAACA
186601	ACAGAGCCCT	AATATTCATG	AAACAAAAC	GACAGAATTG	AAGGGAGAAA	TAGAAAATTC
186661	GACAATAATA	GTTGGAGACA	TCAATACCTC	ACTAGTTAGA	CAAGATCAAC	AAAAAATAG
186721	AAGACTTAAC	ACTTGAAAAC	ACCTAACCTG	ACCCTAACAT	AAATCTATAG	GTCCTACAC
186781	CCCAAAACAG	CAGAATAAAC	ATCCTTCTGA	AGCTCACATG	AAACATTTT	CAGGATAGAC
186841	TGTATATTAC	TTCATGAAAT	AAGTCTCAAT	AAATGTAAAA	GGACTATAAT	AATAGAGTAT
186901	ATATTCTCTG	ACCAAAGTGG	AATGAAGATA	GAAATCAATA	ACTAGGCTGG	CCGTGATGGC
186961	TCACGCCTGT	AATCCCAGCA	CTTTGGGAGG	CCAAGGCGGA	CAGATCACGA	GGTCAGGAGT
187021	TTGAGACCAG	CCTGACCAAC	ATGGTGAAAC	CCTGTCTCTA	CTAACAAAAT	ACAAAAATTA
187081	GCCAGGCCTG	GTGGCATCTG	CCTGTAGTCC	CAGCTACTCG	GGACACTGAG	GCAGGAGAAT
187141	CACTTGAACC	CAGGAGGCAG	AGATTGCAGT	GAGCTGAGAT	CGCGCCACTG	CATTCCAGCC
187201	TGGGAGACAG	AGCGAGACTC	CATCTCAAAA	TTAAAAAAA	AAAAGAAACT	AGAAAAATAA
187261	GAACAAATCA	AACCCAAAGC	AAGCAAGAGG	AAAATGAAAA	ATTTCAAAGC	AGCCAAGAAC
187321	AAAAGGCACA	TTATGTACAG	AAGAACAAGT	GTATAGATCA	CATATTTCTC	ATAGACACAA
187381	TATAAGCAAA	AAGACAGTGG	AGCAAAATTT	TTTAGATTAA	TGAAAGACCT	ACAATTCTGT
187441	ACCAAGCAAA	AAAACCTCCC	CCAAATGAGG	GTGAAATAAG	ACAATTTAAT	ACAGAGAAAA
187501	GAGGAAGGAA	TTTATCTAGT	CATATGTGAG	AGTTTTATGA	TACATTTTGT	ACTGTATATG
187561	TGGATGTTTT	CTATTTTCATT	TAAAAAATCA	ACCGTGCAAT	TAAATGGTAG	ATTGTCTTGC
187621	TTCTTTTTGA	TTGACACAGT	CATTAACATA	AATATTGTAG	TATTTTTTTA	TCTCCCTGCC
187681	TAAAGGCAAT	AAACATCTAA	TCAGCAGACT	AGAACAATAA	AAAATATTTT	TTAAAAGTCC
187741	TTTAGGCAGA	ATGATAAAAG	TCCCTTAGGC	ATATTGAAAT	TCCTATTTAT	ACAAAGGAAT
187801	AAACAGTACT	AGAAATTGTA	ACTATGTGAG	TAAACAGATA	ATATTTTTTC	TCCATAAAAT
187861	GTGGTTGACT	ATTTTCACAA	AAATAGTTAA	CAATGTAATG	TGTGATTTAT	AGCATTAAAA

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187921	AGTAAACAG	GCCGGGCACA	AAGGTTTCGTG	CCTGTAATCC	CAGCACTTTT	GGAGGCCGAG
187981	GCGTGCAGAT	CACTTGAGGA	CAGGAGTTCA	AGACCAGCCT	GGCTAACATG	GCAAAACCCC
188041	ATCTCTACTA	AAAATACAAA	AATTAACCA	GCGTGGTGGT	GCACGCCTGT	AATCCAGCT
188101	ACTCTGGAGG	CTGAGGCACA	AGAATCACTT	GAATCCAGGA	GGTGGAGGTT	GCAGTGAGGC
188161	AAAATTATAC	CACTGTGCTC	CAGCCTAGGC	AACAGAGCTA	GACTCTGTCA	CACACACACA
188221	CACACACAAA	AGAAAAGTGT	ATGACAACAA	CAGTGCAAAA	GAAGCGGAAA	TGAAAATAAT
188281	GTTATTTTAT	ATAAGTGGTA	TACTTTTAGA	TGAACACGA	TAAATTAATG	ATGTATACTA
188341	TAAACTCTAA	GGCAACCACT	GAAATAATGA	AACGAAGAAT	TATGGCTAAC	AAGCCACAAA
188401	AAGAAATAAA	ATAGAATGAG	AAAAAATATT	TAAGTTGTTC	AACAGATGGG	AAAAAAAAGA
188461	GGAAAAAGAG	AACAAAGAAC	AGATGGGACA	AATGGGAAAG	TAATAGCAAG	ATGATAGACT
188521	TAACTCTACC	CATATAGATT	ATCACACTTA	AGGTAAATGA	TCTAAATACT	CTAATACAAA
188581	AGCAGAGGTT	GTCAGATTGA	ATTAACAAAA	CAGACAACAA	CAAAAAAAG	CAAAAAAAGA
188641	GCCACAACAT	GCTGCCTACA	AAAAATTCAC	TTTAATATAA	AGACACAAAT	AGTCTAGAAC
188701	ACCATCACTT	TTAACCTTAT	TTACTCAAAC	CTCCTAACTG	ATCCCTATTT	ATTTATTTAT
188761	TTATTTATTT	ATTTATTTAT	TTATTTTGA	GACAGAGTCT	GACTCTGTTG	CCCAGGCTGG
188821	AGTGCAGTGG	CACCATCTAG	GCTCACTGCA	GCCTCTACCT	CTCGGGTTCA	AGCGATTCTC
188881	CTGCCTCAGG	CCTCCCAAGT	AGCTGGGACT	ATAGCACATG	CCACCATGCC	CAGCTAATTA
188941	TTATATTTTT	AGTAGAGACG	GGGTTTTGCC	ATGTAGGCCA	GGTTGGTCTC	AAACGCCTGA
189001	CCTCAGCCTC	CCAAAGTGCT	GGGATTACAG	GCGTGAGCCA	CAGCACCCAG	CTCCTCTTCA
189061	TTTATTCTTG	CTACGCTTCC	TCCAATCCAT	TTTGTGCATT	TGATGATTTT	GCCAGTAACT
189121	TCTTTATTTT	TCTGGTAAAA	TTACTTATGG	GTCAGTGGG	ACTGGGATGT	TCTTCTTCT
189181	AGAGGGGGTT	TGTGTCTGCT	TTTGCCAGGA	AGCTGGGGTA	CCACCAGTCA	AGTATTACTT
189241	TAAACTCAAT	TCATGAATTG	AGACTTTTTT	TTTTTTTTTT	TTTTTTACGC	AGAGTCCTAC
189301	TCTGTCACCC	AGGCTGGAGT	GCAGCGGTGT	GAACATGGCT	CACTGCAGCC	TCAACCTACT
189361	GAGCTCAAGC	AATCCTTCTG	CCTCACCAT	CTGTATAGCT	AGGACTACAG	GTGTGTGCCA
189421	CCATGCCTGA	CTAATTTTTT	AAATGTTTTT	TTTAGAGATG	GGGCTCACTT	TGTTGCCCAG
189481	GCCGGTCTCG	AGCTCCTGGG	CTCAAGTGAT	CCTCCCACCT	TGGTCTCCCA	AAGTGCTGGG
189541	GTTACAGGCA	TGAGCCTCTG	TGGCTAGCCA	AGACTTTTTA	TTTTTTAGCC	TAAATGTGTA
189601	TAAAAGTTGG	CTTGTGGTTA	CAACTTATCA	GGATTGATGA	TCTCTCTCTC	TCTCTCTCTC
189661	TCTGTCTCTC	CCCACCTCTC	TCACATCCCT	TGCTCTGCTG	AGAAGCAGAG	CAAACATTCT
189721	AGCAGTTTCC	AGAGAGTAGG	ATGGGATTAC	TTCTAGTTTA	CTTTTATCAT	CCTTTGGGAT
189781	CGCAGTATTA	CTGGGAGAAC	ACAAGTATCT	CTTATTAGAC	ATACCACCTT	TGTAGAATCT
189841	GGACTTTCAT	TTTAGACTTT	ATTGTTTTTC	TACTATAAGC	AATTTAAGTT	ACAGATCTCT
189901	CTACACACTG	TTTAAGTTGC	ATCCCATGAA	TTTTGATGTG	CTTTATTGTC	ATTATTATAT
189961	AGTACAATGT	ATTTTGTAAT	TTTTTGTGAT	TTGTTTGGAG	AGATTGATTA	ATTAGAATGA
190021	TGTTTAATTT	CCAAATATGT	GTGTTTTTTT	CCTACATTTT	TTATTTTTAT	TGATTTCAAA
190081	TTTATTTCTA	CTGTAGTCAG	ATTTAATAAT	TCATTTATTT	TTATTATTTT	CATTTTTTTA
190141	GAGACAGGGC	CTTTCTGTGT	TGCCCAGGTT	TGTCCCAAAC	TCCTAGTCCC	AAGCAGTTCT
190201	CCTGCCCTCAG	CCACCCAAAG	TGCTGGGATT	ATAGGCACGA	GCCACCCGTG	CACAACCAAC
190261	AATTCATTTA	AAAAGTGGGC	AAGTGAACGT	AACAGACATT	TCTCAAAAGA	AGGCATACAA
190321	TTGGCCAACA	AATATATGAA	AGAATGCTCA	ACATCACTGT	ATTAGTCTGT	TTTCATGCTG
190381	CTAATAAAGA	CTTAACCTGA	GACTGGGGAA	TTTACAAGAG	AAAGAGGTTT	AATGGACTTA
190441	CAGTTCCACA	TGGCTGGAGA	GATCTCACAA	TCATGGTGGA	AGGCAAGGAG	GAGCAAGTCA
190501	CATCTTACAT	GGATGGCAGC	AGGCAAAGAG	AGAGCTTGTG	CAGGGAAACT	CCCGTTTTTA
190561	AAACCATCAG	ATCTCGTGAG	ACTCATTCAC	TATCATAAGA	ACAGCATAGG	AAAGACCCGG
190621	CCCATAATTC	AGTCACCTCC	CACTGGGTTT	CTCCCAGGAC	ACATGGGAAT	TGTGGGAGTT
190681	ACAATTCAAG	ATGAGATTTG	GGTAGGGACA	CAGCCAAACC	ATATAAATAA	CTAATCATCA
190741	GGGAAATGCA	AATCAAAACC	ACAATAAGGT	ATCATCTCAC	CCCAGTTAGA	ATGGCTATTG
190801	TCAAAAAAAC	AAAAAATAAC	AAATGCTGGT	GAGGATGTAC	AGAAGAGGGG	ACTCTTATAT
190861	CCTACTGGTG	GAAATGTCAA	TTAGCATAGC	CATTATGCAA	AATAGTATGG	AAGTGAGGTA
190921	GGTTACATAG	GGTGGTCACA	GCCTCCCTTG	AAAGGAAACA	AGAAACTTGT	CAAATTGATG
190981	GAGAGAACAA	ATCTCTTGAC	ATTACACAAA	CTGCATCTGG	GGCTAGTGGT	TAGAATATCC
191041	TCAGTCAAGG	AGGTAGAAGA	GCAGGAGGGA	AAATCCCTAA	GTTTCGTGCAA	GTGCAGAAAC
191101	CCACAAGCTG	TGTTCTCAGG	TTGACATATA	CTCATTTTAA	TAGTAAGAAA	CACACCCTTG

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191161	GGTAGAGAAT	TAAAAATGCTA	ATAATACATG	TGATGTATGT	ACTAGCGTGT	ATGGCAATAT
191221	TGCATGCACA	TTCAAGAGAC	CACCCAAAAC	ATATTTAACA	ACAATGCCCC	TTCCCACCCC
191281	CTCATGGATA	ATCACGTAGG	ACTCCCATAA	CGGGAGTTTC	TTCAGTGTC	ATTGGTGCTG
191341	AAGTAGCCGA	CCCTGACTCT	GCTATCAGCG	TGTACTTTCA	CCTTGCAATA	AACTCCTTTG
191401	CCTACTTTTA	CTTTGGACTG	GCTTTCAAAT	TCTTTTGTGC	AGGGAATTCA	AGAATCTGAA
191461	CCAGCCCACT	GACAACAGAG	GTTTCTCAGA	AACCTAAAAA	TAGATCTACC	AGATGAGGCT
191521	GAAAATCTGC	TACTGGCTAT	TTATCCAAAG	GGAAGGAAAT	CAGTATACAA	AGAGACACCT
191581	ACATCCCCAT	GTTTATTGCG	TCACTCTTCA	CAAGAGCTGA	TATATAGAGT	CAACCCTAAA
191641	TGTTCAATTAA	CAGACAAATG	GATAGAAAAT	GTGGCATATA	TACACAATGA	AATACTATTT
191701	GGCCATGAGA	AGAATGCAAT	CTTGTCATTT	GTGGCAACGT	AGATGAAACT	GGAGAACATT
191761	ATGTTAAGTA	AGATAAGCTA	GGATTGGAAA	GATAAATACT	ACATGTTATC	ACTCATATGT
191821	GAAAGTAGAG	AAAAATTTTT	AGCTCATGGA	TTTAGAGAAC	AGAACTGTGG	GTACCGGAAG
191881	CTGGGAAGGG	TAGCAAGGAG	GGGAGGATG	GGAGAGGTTG	GTTAATGGTG	ACAAAATTAC
191941	AGCTAGATTG	TAGAAATGAG	TTCCGGTGTT	CTGCACCATT	GTAGGGTGCA	TATGGTTAAC
192001	TCTCATTTAT	TGTATATTTT	CAAAAAGCTA	GAAAAGAATT	TTGAATACTC	ACAACAAAAT
192061	AAATGATAAA	TGTTTAAGGT	GATGGATATA	CTAATTACTC	TGATTTGATT	ATTACACATT
192121	GTGTACACAT	ATAAAAATAT	CACCTCTTAT	CCCGTATATA	TGTACAGTTA	TTATATGTCA
192181	ACTAAAAATA	AAAGAAAAAA	AGAATATGAT	CTATCATGAT	GTATATATCA	TGTGTACTTG
192241	AGCAAAATGT	GCATGCAGAT	ATTGTGTATA	ATGTTCTATA	AATCAATTAG	CTCAAGATAA
192301	TAGATAGGAT	TGTTCAAGATC	TTCTGTGTCT	TTACTGATAT	TTTGTCTAGT	TATTGCATCA
192361	TTACCAAAAA	AAGGGTGTTA	AACTCTCCAA	ATGTGATTGT	AGAATTGTCT	ATTTTGTCTT
192421	TTCTTTTCCA	TTTTTACTTT	ATGTATTTTG	AAACTCTGTT	ATGACATTTT	GCTATGTATT
192481	TTAAAACTTC	GTTATGTATT	TTGAAACTCT	GTTGTTAGAA	TCATACATTT	ATGATTATTA
192541	TGTTTCTTG	ATGAAATGAC	CCTTTTCTAT	TGTCGTTGTT	TTTGTTTTTT	CTGAAATGGA
192601	GTCTCACTCT	GTTGCCCAGG	CTGGAGTACA	GTGGCACAAT	CTTGGTTTAC	TGCAACCTCC
192661	ACCTCCTGGG	TTCAAGCGAG	TCTCCTGACT	CAGCCTCCAA	GATAGTGGGA	TTACAGGCAT
192721	GTGCCAGCAT	GCCAAACTAA	TTTTGTATTT	TTATTAGAGA	CAGAGTTTCA	CCACGTGGC
192781	CAGGCTGGTC	TCGAACCTCT	GACCTCAGGT	GATCCGCCCC	CCTCGGCATT	TTTATTTTAT
192841	TTTATTTTAT	TGAGACAGAG	TCTCACTCTG	TCACCCAGGG	TAGAATGCGG	TGGTGTGATC
192901	TTGGCTCACT	GCAACCTCCG	CCTCCTGGGT	TCAAGCAATT	CCCATGCCTC	AGCCTCCCGA
192961	GTAGCTGGGA	TTACAGGCAC	ATGCCACCAT	GACTGGCTAA	TTTTTGTATT	TTTAGTAGAG
193021	ATGGGGTTTT	TCTATGTTGG	CCAGGCTGGC	AACTGACTCC	TTTAACAATA	CAAAATATCA
193081	CTCTGTCTCT	GGTAACACTC	TCTGTCTTAA	ACTCTATTTT	AGCTGTTATT	ATTATAGCCA
193141	TTTTAGTCTT	TTTATGCTTT	CTGTTTGCAT	AGTGTATATA	TTTTAATATG	TTTATTCTCA
193201	AGTTATCTGT	GTTTTTATAT	TTAAGATGTT	TCTCTTCTAG	CCAACGTGTT	TGGTCTTTCG
193261	ATTTTTAAGT	CGATTCTAAC	AATCTTTGCC	TTTCAATTGA	AATATTTTACA	CCATTAACAT
193321	CTAACATTAA	CATTTATTTT	TCTTTCCACA	GTACACTGGC	TAGCATCTCC	CATATAATAT
193381	TGAACATAAA	GTGTGATAAC	TGACATCCTT	ATTTTATTCC	TACTCTGAGT	GGAAAGGGCA
193441	GGGGTGGAGA	AAGCATTCAA	CAATTTGCCA	TAATTATAAT	TCTTTTTGTT	ACACTGTTTT
193501	CTTCTGCATT	AAAAAATATC	ATTACATTTT	GCATGAATTA	TTAGGAGAAA	ATATTTTCCA
193561	ATTTTCCTGG	AAAATGCCAT	AACCACGTCT	CTCAATTTTG	TTTCCATCTT	TCTTCCACAT
193621	TTTACATAAC	CTACATAAGA	GACACATTAT	CAAGTATATT	TTACATGGCT	TCTCAGTGTC
193681	TTCTCTGTCT	GCTAACAGGT	TTACCAAGAG	ATGGCACTCT	TGTATTTCTG	GTGGCTATGT
193741	CCATATCGTT	TTGCCCTTAA	GACAGCGTAA	CTACTTCTTT	CACCAGTATT	AAAGACATGT
193801	ACATTTGATC	TGGTTCTTGT	GGATGATTTT	AAATGACTCA	AGCTAATAAT	CCTAATTTTA
193861	CCTAAACACT	CCATTATTTT	AAAATGTATT	CCTTTATGCC	CACAATAAAC	ATTTATTGAC
193921	ATTAGGCTGG	ACATTAGGCT	TCTCTATGGC	AGACATTAGG	CTGGACCCTA	GCCATATATC
193981	TATTGAGGGA	AAAAAAATTA	TTTTCTATAT	AAGTTTCCAG	AAAGCCAAGA	TGTGTTTTAA
194041	AAACAAAACA	AAACATTACA	TTCTAAATGC	TGTAACAAGA	TAAGAAAAG	TGTTGAGGCT
194101	GAGAGAAGAA	CAAAGCAGCA	AGCAACTCCT	GGAAGGACCA	CTGCTGCAGA	GGTAATAACT
194161	GGTGAACCAT	GTTTTGGAGA	AGGAAAAGGT	CACCAAGAGA	AGGAGGGGGT	CCAGGGTGTT
194221	CAGAAAGATT	GCATGCATAA	AGATCAAGGG	TAATAAAAAA	AATTCCGTAT	TATGTAAATG
194281	TGAAGTTCCA	GGACCATGAG	CTTGGAGAGC	ATGAAGTACA	GGAGGAGGGT	TGGTTTCAAA
194341	TAAATCTGGG	AATGAAACAG	TGAAGCCTCT	GGCAGAACTC	ACATCTCTTT	CCTCCCCTCT

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194401	TCCTTGACACA	TTCCCTTTAT	GGAGTAATTG	CAGGGATGGG	AAAAGTTCAA	AACCACCACT
194461	GAGCCTAGGA	AGTGCTAGGG	TAAAGTGGAG	AATGAACCTG	CGTGATTTGC	TCATCCTAAA
194521	CTAGGTTCTT	CTAGGAGAGC	CCTTCCCCAT	AAAATCTGCC	CTCCTCGAAG	GGGCCCAGAC
194581	AGCCTAAGCT	CACCTCCCAA	AGACCCCTTA	CTTGCTGACT	GAATCTGATT	CCACCCAGAC
194641	ATGGCCTAAA	ACCCTTCCAT	AACTCTATAG	CCAAATTCAA	TTTTAGACAG	GCCTCATACC
194701	AACCTTTCTT	CCTCTAAGTC	TGCCACCCTA	GGCAATTCTC	AACATTCTCT	ACACACTTTG
194761	GGGCCATAGA	CGTGCTACCA	AGTCTCCAGA	CCTAGACCTG	ATGGAGCAGT	GCTGTAATGA
194821	GACGACCACT	GGCCTTTGAA	CCAGACCCCT	CTCTGTGGCT	CCTATGCATC	TCCAACCTGT
194881	TTTGAGCACT	GCTGCCAAGA	CATCTTTGGC	ACTTTGTTGT	GAAGTTTAA	AACTGAACATA
194941	ATCTACAAAA	CACCTAACCT	TTAAAAATTC	ATTGTCATTT	CATATCATGA	AAGATAAAGA
195001	AAGGCCAGGA	AACTGTTCCA	GGTTAATAGA	GAATAAAGAG	ATAGCAACCA	AATGCAATTT
195061	GTGATCCTGG	ATTGAGGGGA	AAAAGTGTTG	TCAGAGACAT	GATTGGGACA	GCTGGTAAAA
195121	TTTGAATTTG	AATTTAAAGA	TAAAGTATTG	AGTAATATAG	GAAGATGATT	ATCTGCAACT
195181	TTCAAATGTT	TCAGTAAGTA	TATATATATA	TAAAGAGATA	TAAAGACATA	TAAATAAATA
195241	GATGGATAGG	TAGAGAAAAA	GCAAATGTAT	AATATTAACA	ATCTAGGTAA	AAAGTATATG
195301	AGTGTCTTTT	GTTCTTTT	TCTGATTTT	CTATATGTTT	GAAATCATTT	TAAAAATAAGA
195361	AGGTTTTTGG	GGTTTTTTTG	TTTGTTTTTT	GTTTTTAGAG	ACAGCATCTT	ATTCTGTCAC
195421	CCAGGCTGTA	GCTCAGTGGC	CCAATCATTG	CTCACTGCAG	CCTCAACTTC	CTGGGCTCCA
195481	GTAATTCCCC	CTACCTCAGG	CTCATGAGTA	GCTGGTACTT	CAGGTGTGCA	CCACTGCACT
195541	CAGCTAATTT	TTATTTTTTA	AATTTTTGTA	GAGATGGCAT	GTTGCTATGT	CACCCAGGCT
195601	AGTCTCAAAC	TCCTGCCCCC	AAGTGATCCT	CCCACTTTGG	CCTCCCAAAG	TGCTAGAATT
195661	ATAGGCATGA	GCCACTGCAC	CCAGCCCCAA	ATAAAAAAGT	ATTTTTATTT	AATTAACATA
195721	TTAATTTTGA	GTCAGAGTTT	CACCCTTGTC	ACCCAGGCTG	GAGTGCAATG	GCATGATGTT
195781	GGCTCACTGC	AAACTCTGCC	TCCTGTGTTT	AAGCGATTCT	CTTGCCTCAG	ACTCCTGAGT
195841	AGCTGAGATT	ACAGGTGCCT	GCCACCATGC	CCAGCTAATT	TTTATATTTT	TAGTAGAGAC
195901	GGGGTTTTAG	CATGTTGGTC	AAGCTTGTCT	CAAACCTCTG	ACCTCAGGTG	ATCCACCCAC
195961	CTCGGCCTCC	GAAAGTGTTG	ATGAGCCACC	ACACCCGGTC	TAAAAAGTAT	TTTAAAAACCA
196021	CAGTCCCCTC	CTACCTTGTC	CTACACTACC	AGGGGCTAGG	ATCACCCCAT	GTCTTCTAGG
196081	CTATGAGATA	GAGGAATCCA	AGGAAGAAGA	TAAGCTACTT	GGTTCCTCTA	TAGGGTCTTG
196141	TGTGTGCTCT	CATGTGCTCT	CTCTCTCTCT	CTCTCTCTCA	CACACACACA	CACACACACA
196201	CACACACACA	CACACACATG	AATACCAGAG	CTATCACTTT	CCCAGTCTAG	TACTCATCTC
196261	ATCCCAAGGG	TTTTGTGTTG	TAGTGGTTTG	CTCATTTGTT	TGTTTTGTTT	TTTTGCTTTG
196321	ATTATTCTTT	TTCTCTTTT	GCAGCTGAAG	GGAGAATTTT	CAGGCCAGCC	CTTTGGCCAT
196381	TAGAGTTACA	GTGCCTCTAT	TCAGGCTTCA	TAGAGAGACC	TGGGATTCAG	TAGTGGGGGG
196441	CTTTTATCCA	GTTCAAAATA	ATGCATTCTC	ACCAAGATGT	ACTTTGAAAT	AAAACAATAC
196501	TAAACACAA	AATTTTATTT	ATGCTGAACA	TTGAATCACT	TTTTTCTGTA	TTTTGTGTAG
196561	AAAGTTATAC	ACACACAAAC	ACATTTGCTC	CTGCTTTGTT	TATTGGCCCA	GGGGTATGTT
196621	TGGTAATACT	TCATCAGGCA	TGAGTAGTAC	GTCTTGGAAG	GTGTGGTCTA	AAGCCTAGAC
196681	TCCTATCTGC	TTCTTTCAGC	ATTCTCCAGT	GTATCTGTCA	TCTGTCTACC	TTAGGATGGG
196741	GTCTCCAGAA	CTTCCATTCA	CATTTAGAAG	AGGGCAGCGG	CTTTCTATGG	AAAATATGAA
196801	CTCTCATTCA	TCTCTATTCC	TTCTTCTAGC	TATGGTCCAG	CTCAGCTGTT	TGGAATAAAG
196861	TATCTATATG	AAGTCTGCGA	ATGGTTCTCA	GACTGGTTGA	ACATTAGAAT	CACCTGAGTA
196921	CCTTCTAAAA	TTCTTATTAC	CCAGGGCATA	TCTCAGAATG	AGTACCACAG	GGTAGGGATA
196981	GGATTAGGGA	TCATGATCTC	TGGAGTCTGG	TTTAGGCACT	AGTGCTGTTT	AAAACACGCT
197041	TCATGAGGTG	GAGGTTGCAG	TGAGCCGAGA	TGGCGCCACT	GCACTCCAAC	CTGGGCGACA
197101	GAGTGAGAGT	CTGTCTCAAC	AACACAAAAC	AAAAAAAACC	AACTACCCTT	GTGATTTGAA
197161	TGTCCATCCA	AAATTGAGAA	CCATTAGGTA	AGGCCAAGCT	GTATAATTAA	AGAGCAGTTT
197221	TCATTTGTCT	GGTGTGGTGG	CAGCTTTTTG	ATAAGGGAAG	TATTGTTGCC	ATCCACATAC
197281	CTGAGCCTCA	CTCCTGAGAA	CACTGGTGTG	TATGTTGCTA	AAATCCCCCA	GGTGATTCTG
197341	AGGTTCCCTC	CTGGATAAAA	ACCACTGACC	CTGGGAATGT	ACCCACTGCC	AATCTCCTGC
197401	GTAAACCTTG	GATACTGGGA	AGCCTACAGT	TGAAAATATT	GGGCTTGAGA	TCCTGAAACA
197461	AATCTTGTAT	TTCAATTAAGA	CTAATATTTG	GTACAGTGCA	GCAAATCAAG	GGAATTTTGG
197521	TGGCTGAGTT	CTTTTGAAC	TTTTGCATTG	AAATAGGTTT	AAGCAGCAAT	AAGTTAAAC
197581	TACAACCTCA	GCTAAAGGAT	TAAAAGACAC	GTGAGCTGGG	TAGGATGAGG	TCTAAGATTG

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197641	GGTGTGGCGG	CTCATACCTG	TAATCCCAGC	ACTTTGGGAG	ACTGAGGTGG	GTGGATCACT
197701	TGAGGTCAGG	AGTTCAAAAC	CAGCCTGGCC	AACATGGTGA	AAACCCATCT	CTACTAAGAA
197761	TACAAAAAAA	TTAGCTGGGC	GAGGTGCCAG	GCACCTGTAA	TCCCAGCTAC	TGGGGAGGCT
197821	GAGGGAGGAC	AATCACTTGA	ACTCAGGAGG	CAGAGGTTGT	AGTGAGCTGA	GATCGCACCA
197881	CTGCACTCCA	GCCTGGGTGA	CAGAGCAAGA	CTCCATTAA	AAAAATAATA	ATAATAATAA
197941	CAATAATAAT	AATTCAGACA	TATCCAGGCA	TCAAACAGAT	ACCTGGGGCA	GATGAATAGT
198001	CTTGAGATTC	AAGTCACACA	TGAAATTTAG	GTGGAAAATG	ACATTGGAGA	AATTTGAGAT
198061	TATGATGAAT	GGAAATTTTT	CAAAGAGGAA	TTTCAGGCTC	TGTTCTTGAG	GGGATAGATG
198121	GACTTCCAAC	AGCAATAACA	CAGGATTAAT	GAGGACTTGG	GATGTTACAT	AAATTAGAGA
198181	TGTTAGATGG	ATAAGAGAT	AAAAGTACTC	TCTCTAAGAA	CATGGGACCA	GAGATAGGCT
198241	CACTTCTAAC	CATCAGATAT	AATAGCAGA	CTAAACGGTC	TAAAAATAAA	AATCATGCCC
198301	CACTCCTGCT	TAAGACATTT	TAATTACTCT	CAGTAACTCT	TCAGTTTTTC	TACTGTGTTA
198361	TCTTTAACTA	CAGGGTTGGT	CTGGGTGTGC	AACACAAGAA	AGCCTGGCAT	ATACATGGAT
198421	TCAAGTGTAT	GCCATGTACA	GGTATTCTTT	CATGTACTAT	TTTCTGTATT	CTTTTTTACA
198481	TCTGTTTTTT	CCTTCATTGA	AGTCAATGGC	TGATATTAGA	TTCTACTATT	CATGTGTACT
198541	AGTTATATAT	AATTGTTACA	AAACAAATTA	GCAAAAACTT	AGTGGCTTAA	AGCAACACAC
198601	ATTTATTATT	ACCTAAGGTC	TGTGGATAGA	AGTTCTGACA	TGGCTTAACT	GGGTTCCCTG
198661	CTTCAAGCCT	CATGTGGCTG	CAATCCAGGT	GTTGGCTGAG	TCTGAATTCT	CATCAGAGGC
198721	TTGATTGTGG	AAATTTCCAC	TTCCAAGCTC	CCTCAGGTTT	GTTGAAAAAT	TCAGTTCTTT
198781	GCACCGGTAG	AAGCTTCTTG	GTAGAGGCTG	ATTCAACTTC	TAGAGGCTGT	CTGCAGTTCC
198841	TGTCACCCAG	GGTGGAGTGC	AGTGGAGCAA	TCATAGCTCA	CTGCAGCCTT	GACCTCCCAG
198901	AATCAATCTG	TTCTCCCACC	TCAGCATCCT	GAGTAGCTGG	GACCACAAGT	GTGTGCCATC
198961	ACACCTGCCT	AAAAAACAAA	CAAACGAAAA	AAAACCCCCA	GAGAACCTTG	TAGAGACAAG
199021	CTGGTCTGGA	ACTCCTGCGC	TCAAGCAATT	CTCCTGCCTT	AGCCTAAAAG	TTCTGGGATT
199081	ATAGGTATAA	GCCACCATAC	CTGGCATATG	GCAAGTCTTG	AGCAGGACAA	ATACAGATGA
199141	TTTATGTCTG	TCTTCCATGG	TATTCTAGGT	TATTGTTGAG	ATGGTCTCTCT	ATTGTCTTGT
199201	TCCATCTATT	GATTAGATAA	AACGTTGTTC	CTTCTGTTAT	TTTTCAACAG	TAGCTTTTAT
199261	GTGTCTCTCT	TTATCTTAAA	ATTCTAACCA	AAGAGCTGCT	CTTTTCTTGG	TGTACTTTAC
199321	CTTTGGTTGA	TCCTTCTTAA	CCTCTTCTTG	CCCTCTGGGG	CCTAAGATGA	GGGCTGTTAT
199381	CAGATGTGAG	TCTATGGGAA	AGCAAGCAAG	AGGTTCTTCA	GCCTCCGTTT	AGCCTTAAAT
199441	GTCTAGGTAG	AAATCAGTCA	TGGCCCTTCC	AATGTGGTAC	AGACCAGATC	ACAGAGACAG
199501	GGGTCTCAGC	CAAGGTCTTG	TGGCCTAAGC	CTTATAGAAA	TAATGAGTGT	TTACTTACTT
199561	GGAGAACTCC	CTTGGAATAT	CTTTTTTTGT	GAACCTGAGG	CAACTTTTGG	TGATTTCTTG
199621	ATGCTTGGG	AATCTTGGTC	TAGAGCCATT	TCAACCTGAT	TTCTTTTCAT	GTCAGTGGCA
199681	TTTTGTGACC	AGATAGTAAA	TAAGTTCTAT	GAGTTTCACT	CAGAGAAATA	CAATGACTTA
199741	TGATGTGAAG	CTTCTGTGGT	TCAGCCCTTA	CTTCATCTTC	ATTCCTCTCT	ATCTGCATCT
199801	GTCTCCTGCT	TGGGAACAAA	AGTCTGGCTT	CATTCTATGA	CCCCCACGTT	GAGTTTCTTA
199861	GTAGCACTTA	CTTTTCAATT	AGGAGTGTCC	TCACTTCTAT	CCATCAGACA	TAAGTAGCCG
199921	ACTAAACAGT	CTAAATATAA	AAATCATGTC	CTACTCCTGC	TGAAAAACATT	TTAATTACTC
199981	CCCATCATT	AATTTTTTCT	ACTGGGTTAT	CTTTAACTTC	AGAGTTGGTC	TTGTGTGCAA
200041	CACAAGAAAA	CCTGGCATAT	ACATGGATT	AAGTGTATGC	CACGTGCATG	TATTCCTTCA
200101	TGACTATTT	CATGTATTCT	TTTTTCACATC	TGTTTTTTCC	TCTAAAATTT	ATTTCTTTTT
200161	AAAAATGAAA	ATTTTGCAAT	TGACTAAATT	TGTCAAATTT	AGTCAAATTT	GTTTAAACC
200221	ATTTTAAAA	TGTTTCCCGA	AGTTTGTAGT	GAAGTTAGTA	CTTCAGAAAA	ACTGTTTTGT
200281	ATTTTTCATG	TGACCTCAGT	GCACGTCTGT	GCAATTTCCAT	TTCTGCGTCC	ACACACATTT
200341	GTTTTGAGGA	AATATAGGAA	CGACAAGATA	AAGTTCAAGC	TCCTGGACAT	TGCATAAAAG
200401	ACCGTCATGA	CCTGGTCCTG	TTGACTTCCC	TAGATTTCCC	GCTATTTCCCT	AAGTTGAGAT
200461	TTTTGGTTTG	GATGCTTTGT	GTTTTTCTAA	AATCAAAATA	GGTTTTTGCC	TTTTATGATT
200521	ATACAGTAAA	TAAATGCTAT	TTGTGTGAAA	CTTTAAACAA	TACAAAAAAA	ACCTAAGGAA
200581	GAAAGTCAGA	TTCATCTAAA	AATCCTTGTG	GCCAGAATTA	ACTACCTTAG	TTATTATTTT
200641	CTCTATCTCT	CTCTCTCAAT	GTATATTTGG	TGTAGGTATA	GGGGTGTGTG	TAGTGTGTGT
200701	GTATGTATAT	ATCTGTTTCT	ATTCTGTAT	GTGGATGTGC	ACAACGCATC	CTGCTTTGTA
200761	CACTACAGTA	CTAGCATTTT	TCTAATGTAA	TTCAATATTG	TTGAAAACAT	TTTAAAAAAG
200821	CTTGTATATA	TACACACACA	TACACATACA	TGCATGTATG	TACATATACA	CATACAGACA

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200881	AAAATGTATC	CTATGTATAT	TCACACATGT	ATACACACTC	ACACGTACAT	AGAGTTTTAC
200941	ATCCATAGTT	TATAAATGTT	GCTTTTTTTT	GGTCACCTTT	TTGCTAAGTC	TTACACTTTT
201001	TTTTTTTTTT	TTGAGACGGA	GTTTTGTTGT	CATTGCCCGAG	GCTTAGTGCA	GTAGCGCGAT
201061	CTCACCTCAC	TGCAACCTCG	ACCTCCCGGG	TTCAAGCGGT	TCTCCTGCCT	TAGCCTCCTG
201121	AGTAGCTGGT	ACTACAGGTG	TGCGCCACCA	TGCCTGGCTA	ATTTTTGTAG	TTTTTTTATA
201181	GAGACGAGGT	TTCACCATGT	TGGCCAAGCT	GGTCTGGAAC	TCCTGACCTC	AAGTGATCTG
201241	CCTGCCTCAG	ATTCCCAAAG	TGCTGGGATT	ACAGATGTGA	GCCACTGCAC	CCGGCCAAGT
201301	CTTACACATC	TTTTTTTTTAC	CACTAAACTG	TTTACCCAAA	CCTGATAACC	CAAGTCAACA
201361	GCTATTATGG	CTCACACAAT	CTTATGTAAA	CAAAGATACA	GATATATAGA	ATTTTCTTGA
201421	TTAATATTCA	GAAAAAAATG	GAGTCCCTTT	ATACGTCCTT	AGTATCTGCT	TTACTCATTT
201481	AAAATGTAT	TACATTATAT	GAAAGTATTC	AGGTCAAATG	TTATAGATGT	GATTCATTCT
201541	TTTTAACTGT	GTTATTTTTC	TGCAATGACT	ATGTATCACA	AAGTACTCAG	TCTTCCACTG
201601	ATGAAAATTT	GGGCTATTTT	CAGTTTGTCT	TCCATTTTTC	TTTCTTCCTC	TTGGATTTTC
201661	ACTCAATGTG	TTTACTAATT	TAGGAAGAAT	CAATAGTTTT	TATGGTATTA	CTTCTCCCAT
201721	TCAAGAATAT	AGCATATGGT	ATAGTATAGT	AGAGTACTTA	GTTTAATTTA	GCCAGATCCT
201781	GTTTTCTGCC	CTTTAATAAA	ATTCTATCAT	TTTCTGCCTT	TGAGTCACAT	TTTCTTTGTT
201841	CATATAATTC	TTAAAAAATG	TATAGTTTTT	ATTCTAAGGG	AACATAAAAA	CTTCTTTCCA
201901	TTTCTATTCC	TGTCTAGTTA	ATTCTACTAT	TGGGAAAAGT	AACGTGTTAA	AAAAATTTCT
201961	ATCTTTCCAG	TCAGTTCACC	ACATTTCTTT	TATACCTTTG	TACTTTAATC	CCCAGTCATG
202021	TTGAACACTT	CTTATTCCCT	ACACCAAGCC	TCAACGGGTT	TGCTCTTTCT	GGAAGGTGCT
202081	TCCCCTGTAT	TACTGACTTA	TTCATACCAC	ACATGGAGAC	TGGCGCAGCC	CTGTTCTGCC
202141	TGGGAAGCCT	TCCCCTGATA	CCCCTAGTTG	GCAGGAGTCT	TCATTTGTTC	TTTTCTAGTC
202201	ACCTGTGCAA	GTTTGTATTG	TTCATGTTTA	TCATCCTTCA	TTCTAGTTGT	CTGTCTCTAT
202261	GTGTGGTCTC	ATTCAAGTGA	CTCTGAAGTC	TTATGAAGTC	ATGTCATGGG	TCAGATCTTA
202321	ATAAATTAAT	ATTGTCGGAA	GCTAATGTCA	TGTCTAGAAT	ACAGAAAATT	TATCAAAAAA
202381	AAATATAGTA	TGTTGGCTGG	GCGCAGTGGA	TCAAGCCCGT	AATCCCAGCA	CTTTGGGAGG
202441	CCGAGGCAGG	AGGATCACAT	GAGGTCAGAA	ATTCAAGACC	AGCCTGGCCA	AAATGGTGAA
202501	ACCTCATCTC	TACTAAAAAT	ACAAAAAGTA	GCCAGGCGTG	GTGGTGCCCA	CCTGTAATCC
202561	GAGCTGAGAT	GGAGGCTGAA	GCGGGAGGAT	CACCTGAACC	TGGGAGGCAG	AGATTGCAAT
202621	GAGCTGAGAT	CATGCCACTG	CACCTCAGCC	TGGGCGACAG	TGAGACTCCA	ACTCAAAATA
202681	ATAGTAATAA	TAATAATAAT	AATTGTATGG	AATTGAACTG	CTCTGATTGG	AAATAGCTGT
202741	TTTTTAAAAA	ATTATTATTT	TTTAAGTTCC	TGGGTACATG	TACAGGATGT	GCAGGTTTGT
202801	TACATAGGTA	AACGTGTGCC	ATGGTGATTT	GCTGCACCTA	TCAACCCATC	ACCTAGGTAT
202861	TAAGTACAGC	ATGCATTAGC	TCTTTTACCT	AATGTTCTCC	CACACCCCCA	CCCCATCCTC
202921	CCCCAACAGG	CCCCAGTGAG	TGTTGTTCCC	CTCCCTGTGT	CCACGTGTTT	TCATTGTTCA
202981	GCTCCCACTC	ATAAGTGAGA	ACATGAGGTG	TTTGGTTTTT	TGTTCCCTGCC	TTAGCTGTTA
203041	ATGTCAGGCC	AGAGAGGCTT	AAATTTTTAA	GGATCTCTGG	ACTTTTCTTC	TACATTACTC
203101	TTGATGTTTA	TAAATGTTAC	AACTTCTTTA	ATTTTATTAA	ATGTATACCT	TATTGAGTTG
203161	ATTTAACTGA	GTAACTTTTG	TTATATGAAA	ATCATGATTG	GGAGTGAGGG	GGTTAAACCA
203221	GCTACAGAGA	TCTTGATTGT	TGGTGGTGAA	GCAATGCAAG	AATTCATTCA	TTCAGTAAAC
203281	TAATGTTTAT	TAAGCGTGTA	CTGTCTTAGT	CTGTTTACAG	TGCTGTAACA	AAATATCATA
203341	AACTGGGTGA	CTTATAAACA	ACAAAAAATT	TATTTCTTAC	AGTTCTGGAG	GTGGGAAGTC
203401	TAAGATTAAG	GCCCTGGCAA	ATTTAGTGTC	TGGTGAGGAC	AGGTAGCCAT	CTTTTGTCTG
203461	AGTCCTAACA	TGGCAGAAGG	GTTGAATAAA	CTTCCTTGGG	TTTCTTTTAT	AAGGACACTA
203521	ATCCTAGTGA	TGAGGTTTCT	GCCCTCATGG	TATAACTACT	GCCCCAAGAC	CCCTCCTTCT
203581	AATATTATCA	CTTTGTGGGT	TAGGATTTCA	ACATGAGTTT	TGAGAGGATA	CAGACATTTG
203641	GATCATAGCA	CACACCATAG	GACAGACACT	GTGCCAAGAA	TTGTGGATAT	AGTGATTCTC
203701	AAAATGAACA	AGATCCCCCT	AGAGAGCTTG	CAAAATCCAG	CTATAAAATT	ATGCTTTTTA
203761	AACAAATTAT	GCAGTTTGAA	AAATCTACTC	TGAATCTTAC	TTGTGGCATT	GAATACTTTC
203821	GGCCACTCTT	TCCTTATTAT	ATTAAATATT	TACTCTTGTT	TGGGGGATCC	AGTCTCACCT
203881	ACTTTTTCTA	CCAGAACTGG	TATCAGCTCA	TGCTCTGCCT	TATGCAAATT	AAGAAAATAT
203941	CATACCTTTT	GGGTAAATTA	AGCCAAGAAA	GTTCTCCTTT	CTTCTCTTTC	TCTCTTCTTT
204001	TCTTTCTCTC	TTTCTCTTTC	TTTCTTCTTC	TCTCTTCTTT	TCTTCTTCTT	TTTCTTCTTT
204061	TCTTTCTTTC	TTTCTTCTTT	TCTTCTTCTT	TTTTTCTTTC	TTTCTTCTTT	TCTTCTTCTT

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204121	TTTTTCTTTC	TGACAGGGTC	TTGCTCTATT	GCCTAGGCTG	GAGTGCAGTG	GTGCAATCTC
204181	AGCTCACTGC	AGCCTTGAAC	TCCAGGGCTC	AAGCAATCCT	CCTGAGTAGC	TGGGACTATA
204241	GGCATGTGCC	ACAACATCAA	GCTAATTTTT	GCATTTTTTT	GTGGAGACGG	GATCTCCCTA
204301	TGTTGCTAAG	GCTGGTCTTG	GATTCCTGGG	CTTATGCGAT	TCTCCTGCCT	CAGCCTCCCA
204361	AAGTCCTGGG	ATTACAGGCA	TGAGCCACTG	CCCCTGGCCA	TTATAACTAT	TTTCATTGGC
204421	TTATCAGGCA	CATGATAACT	ATAATAAATC	AATAACCAGA	ATTTTTAAAT	AAAGAAAGGA
204481	AGGAATTGTT	TCAACTCTTC	CTGCTACCCC	TCTATCCCTC	AAAAGGGTAG	GCTGAATGTT
204541	GTCCTCCAAA	GATATCCATG	TCCTAATCCC	CAGAACCTGT	AAATATATTA	CCTTATATGA
204601	CAAAAGGGAC	TTTACATGTT	TAATAAGTTA	AGAATTTTGA	GATGGGCAGA	TTTTCTTGAA
204661	TTTTGCAGAT	GGGCCCTAGT	GTAATCACAA	GGGTCCTTAT	AAGAGACAGG	CAGAAGAGTC
204721	AGAATAAGAG	AAAAATACTT	CAAGATGTTA	CACCTGCTGGC	TTTAAGGTGG	AGGAAAGGCC
204781	AAGAGCCAAA	AAATGCAGTG	GTCACTACAA	GCTGAAAAGA	AAAAGAAATG	GATTTTCCCC
204841	TAAAGCCTCT	GGAGGGGGCA	CAACCTTGCC	AATACCTTGA	TTTTGGCTCA	GTGAAACCCA
204901	TTTTGGACTT	CTGACCTTTA	GAACCTGAAA	TAAATAAATA	ATTTTGTGTT	GTTTCAAGCC
204961	ATCACAGTTG	TGGTAATTTA	CTACAACAGC	AATAAAATAG	AATTAAATAC	AGAGACTCTGA
205021	GGAGTTGAGT	AGGATAAGCC	TACTCCAGCA	GGTTATTTTCG	GGAGTATGGT	GAGACTCACT
205081	AGGATGGCGG	AACTCAATTA	AGGAAGTCTG	AAGCTGATAA	GCCAGAGAGG	GAAGGCTCTC
205141	ACTTCATTTT	ATAAGGGTTG	CGTCACACTA	GGAAGATCCA	ATAGCAACCA	CAGTCTCAAA
205201	ATTAATGATT	ACAAATAGGA	CACAATTCCA	AGAGTCGGGA	GCCAAGCAGA	AAATGGATTA
205261	GGGAAGACAT	GGATGATATG	AAACAGGAAAG	GAGGGGTACA	AGGCAGCTTC	CTGGGAAGTT
205321	GCCAGGGCAG	TCACAGTTCA	CATTCAATTAG	GCTGTGGGCA	CCAAATGCAT	ATGGAAAATC
205381	TAGCTGACTT	AACTGAACTC	CTGAAGAGGA	ATGAACACCT	CATTTATTGA	GGAGCTACTA
205441	CCAATTAGAA	TATGTATTTT	ATTTGTTCAA	TAACCCCATG	AGTACAGTAA	CACAATCCTT
205501	GCTTTACTAA	AGCGGAAGCC	AATTCAAAGA	GGTTCAGTGA	CTTGTCCAAG	CTCAGGGAAA
205561	ACACTAGGAA	GTGAATATGG	GTCTGACTCC	ATCACTGATT	TCAGGAGCCC	TGCCCTTTCC
205621	TCCACACCAT	GCCCCCTTGC	TTTCAGAAAA	AAAGGCTTGT	TGACTAAGATG	GTTGTATGCA
205681	CAGTTCAAAG	CAGAAACACA	CGATGACATC	TTTGTAGATA	CTCTAACAGT	GAGAACTTGA
205741	AAATGAAGTT	AAAAATTAAG	CGGCAAAACC	AAGCCGAGGC	TTTCTGAGAA	AGTGGGGCCA
205801	AACCTGTTGC	CGTCTGACTG	CCACGTGGCT	CACATTTTAT	CCCTGTAAAA	ATCTGCAAAA
205861	GTATTTGAAA	GGGAAGAAGG	GACAGAAAAC	TCCCTCCTTT	TCCAAGTTAG	CCTTATAGTC
205921	TAGGGCTTAA	AATACTGGTT	TAATGGTGAA	GGTAAGTGCT	TTTCTTCTTT	TTGGGTAGAA
205981	GGATTATTAC	TAACCTACCA	AAGGTCCATT	AAGGGGAGGG	AACAGTTTTA	GGAGAAGTCA
206041	GAGAAAAGAC	ATTAACAGCA	ACATAAGGAT	CTCCATCTGG	TAATATTGCC	TAATCCAAA
206101	ATGAAGAGAC	TCTCTGAAAA	AGATAACTGA	TTCAATGAAG	ACCCTAGGGC	AAGGCTTGAG
206161	AAGCCACTGG	TACCAATGGA	CACCTGTGGAC	AATGGTCATT	TCTCCAAGGA	CGCTGTGAGT
206221	ATTAACGTGT	ATGCTGTGAT	TAGTCAGACT	GGGATTGGCT	GTGGAATGAA	ATACTGATCA
206281	GAAC TGACAA	GATTTGTGTT	TGGGACTGTG	GCTAACGAGT	CTTTTCAGAC	TTCTATATGA
206341	ATTTGAAATG	GTCTCTCAGG	AAAAGGAGAA	CATGGCCGGG	CCTGGTGGCT	CACGCCTGTA
206401	ATCCCAGCAC	TTTGGCAGGC	TGAGGCGGGC	AGATCACTTG	AGGTCAGGAG	TTTGAGACCA
206461	GCCTGGCCAA	CATGGTGAAA	CCCTGTCTCC	ACTAAAAATA	CAAAAATTAG	CAGGGCGTAG
206521	CGGCGCGTGC	ACCTATGCGC	ATGCATAGTG	CGCGTGCCAG	CTATTTCAGAA	GGCTGAGGCA
206581	GGAGAATTGC	TTGAACCCAG	GATGTAGAGG	TTGCAGTAGT	TGAGATCATA	CCACTGCACT
206641	CCAGCCTAGG	TGACAGAGTA	AGACTCTGTC	TCAAAAAAAT	AATAATAATA	AAAGAAAAGG
206701	AGAACATGAC	CAAAGTTATG	AATAAGACTG	AAGGCAAGAA	AATTGTACGC	TTGTAGAGAT
206761	CACCTAGCTT	GTTGCCCTCA	TTGTACAGCT	AAGAAAAGGC	ACCCAGGGAC	ATTGTGGTCA
206821	GACCAATTTT	CTCAGAAAGA	TAGGCAGATG	ATGAGAGGGC	CCTCAGTTTT	TCTAACACTG
206881	AAGGAATTGC	TTCTATGTTT	TCTGGTGAAC	TCCTCCCCAC	TCATCTTGAG	GATTCCAGGC
206941	CAGAAGAATC	CACTTTAAAA	AAGAAACATT	TAAAACCAAT	TTAACAACCA	ATCAAAAGGCA
207001	CTTTTATAGA	AATACATTTT	ATTTGCTGTT	GGCCTGTATT	TATGGATCTG	AGAGGGCTAG
207061	ACTGCCAATA	TTGTGACTGT	TTATTATTAT	TGCTGTTGCT	AGTATCTAGA	ATATTATACA
207121	ACATATAACA	CTTTGCAATT	TACGAGGCAT	GTCTCATACT	TTTGTTTTTCA	CTCCAAACTG
207181	CCCAGTGAAG	TAACATTATC	CCAATTCTTC	CTATGAAACA	GTGAAAGCCC	TAAGAGTTTT
207241	TGAAACTTTA	CCTGGTTTAC	TCAATTTGGG	AATGGCAGAG	CAGAATTCAG	TCCTTGAATA
207301	TCCTCCCACT	GCAGGTTTCAT	GCTCTTTGAT	CTAGGTGTAA	CATTTACTCT	GAGTAAACTA

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207361	GGACTCTGGG	CTAACAGAGA	TGAAGCAAGA	CAGGCTGGAT	ATTAGGAGAA	TCTAAGAGCA
207421	ATCTAACGAC	CATTATAATA	AAATCATGAG	TTCTAGACTT	AAAAAAAGGG	AAAAACCTGT
207481	TTTTTTGCTT	ATGCGTATAC	CATAATATTT	ACATTATTTA	TTTTTTTCTC	AAATTCAACC
207541	TATACGGTGT	CAAGTAATTT	TTTTTAATAT	AACATTTTCC	TTTAACTTAA	TTTCAATTCA
207601	TTTTTCTGTG	TCTACTTACA	ACTTTGGCAC	TAGAATTCAC	AATTTTTTTT	TAGAGGTATA
207661	TCTCCTTAAA	GGGAAGGGTT	CTGACACTGT	TACATGTTCT	CAATGTTTTG	CAAATAGGTT
207721	AATAATTATT	CCAGTGTCTC	TAAGTACATA	TCAACCATGC	CAGTGTTCAG	CCTCCATAAT
207781	TTTATTAGCT	TCTGTGCTTA	TTTTGGAAAA	ACATTTCCCA	TTACCATGAA	AGACCTCAGT
207841	TTAGGATGGT	TTGGTATGTT	AGCCTGATTT	CTGCATTTCG	CTCATGCAAA	GGAAAATAGG
207901	AAACGAAGAA	CTGAAATTAC	CTATTGATAC	AAAATCAAAG	TAGCATTTGA	AACCATAAAA
207961	CTTAAGTAGG	GCTTTTTCATC	CTTTCTCGTT	AGACAGCAAC	AGAGAATGGG	AAGAAAAACT
208021	AAAGTGATGG	GTTTGTGATA	CAATTCCAGT	AACATAAAGA	GCAAGGAGAA	GTAGTTTTGT
208081	TGTGTTTATG	TTTAATATTC	AAAGCTCAAC	CTAAAAGTAT	TTTTCATTAT	CAAACCTCCT
208141	TCTAGAATAA	ATGATTAAAA	CTTGATTTAA	AATATACAAA	TTCTCCTTTA	TAATACCTCA
208201	AAATGGAGCT	ACCCCATTGA	GTTTTAAGCT	TGTGATTAAA	ATATTACGAA	AACAAAGGGG
208261	AAGTTGTAAT	AGGTAGAACA	AGCAGTAGTC	TAGGCATTAG	GGGATCTGGT	GCTGGCTCTG
208321	TGCATCATGT	GGTTTCAGGC	AACCTTTCAA	ATTTTCTACG	CAAATTTTCT	TATCAATAAA
208381	ATAAACAGTT	GGGCCAGAGG	ATCTCTGAGT	CTCTTTCAGC	TTTCAGTGT	TATAAGATTG
208441	GAGAAGTTGG	TGGGAAAGCT	TTAAGTGGAG	TGTAAGTAAT	TGCAGCTGCA	TGTACAGTTA
208501	AAGAGTTGCC	TTCAGCCAAG	CCACGGGATC	TTGCATAAAA	AGTGAAATCA	AATAGAAAAAT
208561	GGTCCAAACT	CTGGGTTTGA	CCACAGATGA	CTTCAGCTAG	GATCTGAGTG	TAGAGCAATG
208621	AGCTGAACTC	CTGATATCCA	GATGTTAGCA	AGACTTGGAG	GCCTTCTAAG	GCAGAGCAAC
208681	AACCAGTATC	TGTCCTGGTG	CTGACCTGAT	CTTACTAGCA	ATTGGGCCTC	CATTTGGGTC
208741	CATTGTACAA	AACAACAACA	ACAACAACAA	TAAATCTCC	AAACACCCAA	AATTCAAAAT
208801	TTAGATGGAG	AGATACTATT	CCCAGAATTC	TAGAGATATT	TGGAAAGCAG	AAAACCTATAC
208861	TTGCCATGCT	GATGAAGTCC	AATTATTGCT	CTTTTAAATA	CATTTAGCTA	CTTCTGAATA
208921	TAAATGAGT	ATCTACTAAT	TATTTACAAA	ATCACTTGGT	AAATATAGAA	AGTCACAAAG
208981	AATGAAGTGA	TCATCCTGTT	TTGTAACCCA	GAAATAGTCA	TTACTGGCAC	TTGTGTGAAT
209041	CAGTTTCTAT	TCCTGTATGT	GGATGTGCAC	AGCGTATCCT	GCTTTGTACA	CTAGAGTACT
209101	AGCATTTTTT	TAATGTAATT	CAATATTGTC	GAAAACATTT	TAAATAGACT	TCCATCACA
209161	TAATCTATCA	AATTGACTTG	CCAGACTCTC	ATTATTAGGT	TAATTTATCT	CTAACATTAT
209221	GCAGTCATGA	GTAATACTAC	AAAGGATATT	TTTGGACACA	ATTTTTTCATC	TATGCCTTTC
209281	TTTATAATCC	TTCATCCTAA	GGTCACAGAT	TATGAATATC	TTTAAAGTAC	GGACAAGTCT
209341	TTTAAATTTT	GTGTGCAAAA	ACAGTGCAAA	GCCTTGAATG	ATAAAATAGA	GGTTTGATAT
209401	ATGTGTTTTT	TTGTTTGTTT	GTTTTGAGAC	GGATTCTCTG	TCTGTCCCCC	AAGCTGTAGT
209461	GCAGTGGCAC	GATCTTGGCT	CACCTGCAACC	TTTGCTCTCT	GGGTTCAAGC	AATTATCCTG
209521	CCTCAGCCTC	CTTAGTAGCA	GGGTCTACAG	GCATGTGCCA	CCACACCCGG	CTGTTTTTGT
209581	ATTTTTAGTA	GAGATGGGGT	TTCACCATGT	TGGCCAGGAT	GATCTCGAAC	ACCTGACCTC
209641	AAGTAGTCCA	CCCACCTCAG	TATCCCAAAG	TGCTGGGATT	ACAGGTGTGA	GCCACTGCAC
209701	CCGGCCGATA	CATGTGTTTT	TAAAGTCACA	GAAATTTTCA	ATGTCTTGAA	GGATTTTAAG
209761	CAATTTAAAA	AATAAAGTCA	TAGAAGCTTC	AATTTAGGAA	TGAATGGAAA	ATTGATGATA
209821	TTCTTAGGAT	ATGGATTTTT	CCTAAAAGAA	ACAAATGTAT	GCATCCCCAA	AGATAATTTG
209881	ATTAGTATAC	AAATATTAAA	TTAAACATGT	CCATATTTAG	AGCCATGAAT	TCTCTTTGCC
209941	TGTCACAATA	GCTGGATTTA	TTCACAATTG	TAGTAATTAG	TCCCTGTTCA	TTATAATTTT
210001	CTAGGTGATA	TGAAGACTTT	GTCAGTCCAA	GCAAGTGTCC	ACATTGTGTG	TAGCAAAACAT
210061	GAGAATAAAC	ATTTTAAACT	TTTAAATGTA	ATACATATTA	GTGTTATGTA	ATGTCATCCT
210121	TCATGTTTGA	AGGCACATGG	AACATTGTTT	TGGTGGTACA	GAGGGGAGAG	AAACACCATC
210181	AGAATGAAAG	GAAAGACCGC	TCTGGAACCT	TCCTCCTTAG	CTCTTGAGCT	TAGTTTAAAT
210241	GTCTGTCTTT	ATGGTCTGCT	ACAAGCAATA	CCACTCTTCA	CCTTCGCATG	CTTCTCTGTG
210301	GTTTGATAAA	GTACATGCAA	TTTTTCATTT	AATTCTTCCA	GCTGCACTAA	GAAAGGAGCC
210361	TTATCTTTAT	TGAACAGATG	AGGAAATGAA	TGATTAGAGA	ATTTAAATGA	CTAGCTCTAG
210421	GTACACAGAG	TGGAACCTAC	AGCCAGATTT	CCTTTTAAAC	ATCCTGTAAC	CAAAAGCATA
210481	CCAGTAGTGC	CCCATAAAAAT	GTAAGTTATA	GAGCTGTGTT	GGGTCAAAAC	TTTTACTGAT
210541	GCTAAGAGGA	GGCAACATTA	ACAAGGGGAA	ATTATTTGTG	TATTATGTTT	TGGATTATGT

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210601	TCTCTCCATA	GATAAAAAGAC	TGTCGTAAGTA	AAAGAGATTC	AGGGCACAGG	GAAACTCCAC
210661	CACAAAGCGT	GGTACCATT	CCCACAGAAG	CTAAATGGAC	GGGAAGCCTG	CCACCAGGAA
210721	AGGTAAAGCC	ACTGCTCTTG	TTTGCAGGCT	ATGTTAATAA	GCTGAAGCTT	ATTCCGACAC
210781	ATTTACACAT	CTCTGCATCA	CACTGACCCT	TCGTAAAGAT	ACTCCCAGTG	TAACATTGGA
210841	GCCAGCTCCA	GCCCCTGATC	CTGTTGCTTT	TTCCTTAGCC	CCATGAAATC	ATCTGCGAGA
210901	AATTAAGCCA	AATAAGCAAT	AAATCCTGGG	ATCTAGGGAG	TGGAATAAGT	TTTGGGAAAG
210961	TCTTTTTTTT	TTTTTTTTTG	ACTGAGTCTT	GCTCTGTCTC	ACAGGCTGGA	GTGCAGTGGT
211021	GCGATCTCGG	CTCACTGCAA	CCTCTGCCTC	CCGGGTTC	GTGATTCTCC	TGCCTCAGCC
211081	TCCCGAGTAG	CTTGACTAC	AGGCACACAC	CACCATGCCC	AGCTGAATTT	TTGTATTTTT
211141	AGTAGAGATG	GAGTTTCGCG	GTGTTAGCCA	GGATGGTCTC	GATCTCCTGA	CCTCGTGATC
211201	CACCGGCCTC	GGCCTCCCAA	AGTGTCTGGG	TTACAGGCAT	GGGCCACCAC	GCCTGGCCCCG
211261	GGAAAGTCAT	TTTAAACCAA	CTATGTATG	AATCCCTACT	ATAATATTCT	CACCAAGCGG
211321	CTGGCTCTTT	CTCCTGAGCT	TGGAAACCTC	CAGTAAATG	GAAATAATTA	TTTCCCAGAC
211381	CACCACTCTT	ATCTGTGAGC	TTTTTTGGCC	ATTAAAAATT	ATTTCTTCCA	TTATATTTTT
211441	ATCTGTGTCT	TCACAGGTTT	TCTCTTTCTT	TCACCTTAGT	GCTTTTCTTC	AAATAAGCAG
211501	GAAAAATCCA	ATCTATCATG	CACATGGGAA	CCCTTTCAAT	ATTGGTCTGT	GGTTGTTCCA
211561	TTTTATGGGG	ATGCTTTTAA	AGAAAAAATT	TGTCCTTTCA	ATATATTGAA	TATCTTCCAG
211621	CACCACATCA	CCTGCAAGCT	TTGTAAAAAT	AGTTCTACAT	ATTAATTTTT	TTTTTTTTTG
211681	AGATTGAGTC	TCATTCTGTC	ACCCAGGCTG	GAGTACAGTG	ACATGATCTT	GGCTCATTGC
211741	AACCTCTGCC	TCCTGGGTTC	AAGTGATTCT	CCTGACTCAG	CCTCCCGAGT	AGCTGGGATT
211801	ACAGGCATGC	ATCACCATGC	CTGGGTAATT	TTTGTATTTT	TAGTAGAGAT	GGGGTTTCAC
211861	CATGTTGACC	AGGCTGGTCT	CAAACCTCTG	ACCTCAAGTG	ATCCACCTGC	CTTAGCCTCC
211921	CAAAATGCTG	GGACTACAGG	CGTGAGCCAC	TGCACCCAC	GTAGTTTTTT	TTTTTTTTTA
211981	AGTTGAACAT	ATGTGAAGGC	AGGACCTAGT	GACACATAGC	AATAACATT	CCAAGTAGAC
212041	ATTACACTAG	GGAATTAGTC	AAAGTGCTCA	TTTAAAGTAC	CATCTCTCAA	ATGTATTAAA
212101	AGAGAATCCT	TGGATGTGCA	ATACCTTAAT	TCAAAGGCAG	CTCGTTATGT	ATAAATCTC
212161	AAGCTTTGTG	ATAAACAAAT	GTGCATAACA	GATGGGACTA	TTGACTTACA	GCCCAGGGAA
212221	TTTTATTGAC	GCTGAGAAGG	TTATGTGACT	GGCTCTGCCA	CTGTCATCCC	CATTCACTTC
212281	ATTTTGAGAC	AATATGACAT	AAATGCCTTA	CATGTGGGTT	TTCTCTATTT	ATCATGTGTT
212341	TCCTATCCCC	TTGAAAGATG	GCCATATTTG	CTTTACTTGG	TTATAAGATC	CCATATTTCG
212401	TGTCTTGAAG	CCAACCAAAT	AATTTGACAA	AGTGGGTTTG	TAGTGCTGGC	TATTTTGGTG
212461	AAAAAAGAC	AATGAGACTT	CATGTGTCTC	CCAAAGTTCT	ATCAGATCGA	GCTGTGAGAG
212521	AAAGGAAAAG	AAAGGGGTCT	CAGTCAGGAT	GCTCACTGCA	TACATCTGTG	TTGTTGTCTA
212581	GGTCCAGATT	TCTGTTCAAT	ACGCTATGGG	CTGGCTCTTA	TCATGCACTT	CTCAAACCTC
212641	ACCATGATAA	CGCAGCGTGT	GAGTCTGAGC	ATTGCGATCA	TCGCCATGGT	GAACACCACT
212701	CAGCAGCAAG	GTCTATCTAA	TGCCTCCACT	GAGGGGCTG	TTGCAGATGC	CTTCAATAAC
212761	TCCAGCATAT	CCATCAAGGA	ATTTGATACA	AAGGTAAGTA	TGATGGAAAA	TAGGGCTCTT
212821	TGTTGAGAGA	AAAAACTTTG	AAAGGAAGGC	ATAGATCTTG	ATTCTGTGGA	GIATGGAAGT
212881	ATACATTTCC	AATGACAAAT	TAAAACTGAC	TGGAACATTT	TTTCTTTGAG	ACATTGCTTA
212941	CTTCAATAAT	AAAAATAAGA	TTTCATTGAG	GTTATTATGA	TTATAAGGTG	GGGGAACGTG
213001	AGAGTTAAAT	GTGAAAAAAT	TAAAAATGGA	ACAGTTTATG	TGATGTCTTC	AATGAAAAAC
213061	TAGGTATTAC	CTGGGCACAT	TCTTATAGGT	TACTCAATCC	TATTCAGTTC	TCTGCCTGTT
213121	TTATTGTTTC	TGAGCAATTT	TATATCCCTG	TAAATTCTAT	ATAACCAATA	GAAATGCAAA
213181	CGATTCTTGT	CCATAGCTTT	GCAAATAAAT	TTTGCCAAGA	GAAAAATCAG	TTAAAACTTT
213241	TCTCCACTCA	CCTCCCAGTT	GAATTAGCCA	ATTTTGCTGT	TTGTTTGTTC	GTTTGTTCCT
213301	TGAGATAGAG	TCTTCTCTG	TCATTCAGGC	TGGAGTGCAG	TGGCATGATC	TCAGCTCAGT
213361	GCAGCCTCCG	CCTCCCGGGT	TCAAGAGATT	TTCCTGTCTC	AGCCTCCCAA	GTAGCTGGGA
213421	GTAAGGGGGC	ATGCCACCGC	GGCTGGCTAA	TTTTTGATT	TTTAGTAGAG	ACAGGGTTTC
213481	ACTAGGCTGG	TCTCGAACTC	CTGACCTCAG	GTGATCCACC	CGCCTCGGCC	TCCCAAAGTG
213541	TTGGGATTAC	AGGTGTGAGC	CACTGTGCCA	GGCTCTGCTG	TATATTTAAA	GTCTATTTC
213601	GCATTGCTTC	CTGCTTGTGT	TATGCGTGAT	TCTTTGAGTT	TTCCTTTGAA	CCAGTTATAA
213661	CATCTTACTT	ACTTCTCCA	TTAATCAATG	AGTTAAATAA	AATCTTTGTT	GATGTTTAT
213721	TTTACATTTA	TATGAAAACC	ATGAATTTAC	CCAATTAATA	AAATTATCCT	TTAAATTATC
213781	TTGTACTGTA	CATTTCCCAT	GTCATCCCTA	TAATTCATGA	TTAATGATTT	TATTACATTG

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213841	GACCTAGCTT	ATTTACAATG	AGTACATAAA	TTTATTGTCT	CCAGTCTTTC	CTCCATTATC
213901	CCGTCTACAT	ATCCCACTG	AGTAGATTCA	CTACTCAGGA	ATCTTGGACA	CCTTCAAGTT
213961	GCCAAACATG	CAGTGTTTAC	TGGACATGCT	GTGTTCCCTC	AGAATTTGGG	CCTGCTTCTC
214021	AGCACACTCA	CATCTGCTAT	CAATGACCCA	TGGAAAGTTT	TTGCCCTGAG	CAAGCCAGAG
214081	TCCCTGTTAG	TTTCTTCCAA	ATGCTACAAG	TCTACTTTTG	CTATTTTTC	CGATGAGATA
214141	AAATTTTCCT	TTTTGACTTT	CTACAAATCA	TAGTCATTTT	TCAAGGGATA	GTTCAAGTAT
214201	TGCTTCCTTT	CTGGGACCTT	CCCAAATTAT	TATTTTCTCC	TCTCAAAGTC	TCTGTTTTAT
214261	TTATGTTTAT	CCTCAAATCT	TGATTCTCAC	ATGAATCATA	TACCTTGTAT	TATTTATAGT
214321	TTTTTTGAGT	AGGTAAAATA	TTTCATATTT	TATATTCTTT	GGCTCTCTAC	TTTATAGCAT
214381	GATGCCAGAT	ATTTAGGGGC	CTTACTGCAT	TTATTTTTTA	TTTTATTTTA	AAATCTATTT
214441	TATTTTTTAT	TTATTTATTT	TAAATCTAT	TTATTTTTAG	GTAAATATTC	AGGTAATATA
214501	ATTTATGTAA	TTATTTAGGA	ATTTTAGGTA	GTTATTTTAA	AATAATTCAA	ATTATTTATT
214561	GAGTTATATC	AGAAGAATGT	GATCTTATTC	ATTTGTAATA	TGTGTTTTAG	GAAGTCAGTT
214621	CAGCCAGGGC	AGACCATAAT	TCCCAAACCT	GACTTTTCTT	TTTAATTAGG	CACTGATTTT
214681	GGTTAAGAGT	TCAGTAAAGT	TTTGTGTGTG	TGTTTTAAAA	AATTCCTTGA	TATAAGAGTC
214741	AAGATGTTAC	TCAACTTTTA	CTAGAAGCAA	AATAGAGGAA	GTGCTTTCAC	AGATGAAATA
214801	TCTCTCAATG	TTTTCTTCCA	TTTACTTCTT	CCTATTATTC	ATCTATATAA	TCATTTTCTT
214861	TACCTCTTTT	CTTCATTTCT	TCTGTTTTTC	TCTCCTACTA	AGACAAGCAA	ATTAGGGGTA
214921	TAATTGGTTA	TTTGGGAAGG	TAGGAAGAAT	ACAGAGAGAA	ACAAAAATCA	ATATTGTATA
214981	CTAGGGICTC	ACTAACCTCA	AGCAACTCTG	ACTGTAAAGT	AGATTTTCAT	AATAGGACTT
215041	CTTGACAAAG	AGTTTTCTTA	TTTTTCCCCC	AGGCCTCTGT	GTATCAATGG	AGCCCAGAAA
215101	CTCAGGGTAT	CATCTTTAGC	TCCATCAACT	ATGGGATAAT	ACTGACTCTG	ATCCCAAGTG
215161	GATATTTAGC	AGGGATATTT	GGAGCAAAAA	AAATGCTTGG	TGCTGGTTTG	CTGATCTCTT
215221	CCCTTCTCAC	CCTCTTTACA	CCACTGGCTG	CTGACTTCGG	AGTGATTTTG	GTCATCATGG
215281	TTCGGACAGT	CCAGGGCATG	GCCCAGGTAT	CCAGATACTT	TCTCATTCTT	GGTGGGATCC
215341	AGATTTCTGA	ATTCTACAAA	ATATCAAAGG	TCTTAATGAT	TTTCATTTCA	GGGAATGGCA
215401	TGGACAGGTC	AGTTTACTAT	TTGGGCAAAG	TGGGCTCCTC	CACTTGAACG	AAGCAAGCTC
215461	ACCACCATTG	CAGGATCAGG	TAAGTGTGCA	CAGATGGGTC	ATAGCTTTGT	CATCTGTTCC
215521	ATCCCACTGT	GTCTTATCTT	CTATGAATCA	AATGGTTTGG	GGAAGAGAGA	GAAAAAGTAC
215581	TGCTGAAAAA	TTCAACAATA	TAAGACACTT	GCATCACAAA	TAGGAAAGAT	GCATCTGTGC
215641	AGTAAAGACA	TTGAAGCTTA	GAAAGTAGAAA	AAACCATTGT	GAGCTAGGTT	TCAGCTCAGA
215701	AAAGCCTTAG	TAGTCAGAAA	AGCCTTAGTA	GTCAGAAAAG	CCTTGTCGGA	AAAAGTTTAA
215761	ACCTTTAAGA	ATTGCACACA	TGGAAAAAGA	TCAAGTAAGC	TATATATACA	CCATCTTAGC
215821	AATGATTTTG	AAGTGAGAAT	TAAGGCTACC	ACAGCTCCAG	GTGGTAAGGA	GAGAAATCAG
215881	GCTGGAAGAG	TTTGAAGTTT	CTGTATTATT	CTAAGCTCTT	TACTATTCTA	TTATGAGCTC
215941	ATTAATTCTC	ACAACAACCC	TCTCATATAA	GTACCATTTT	AAATTCTTAT	TTTACAGAGA
216001	AGGGAGTTAA	GGAAGGTGGA	GATTAAGAAA	ATTGCCCAAA	TACAAATAGC	CAGCAGGTGG
216061	TAGGTCTGAG	ATTTAAGCCC	ATGCAGATTT	TAGCCCCAGA	GCAGACATTC	TCAATCACTA
216121	TGCTAGACTG	CCTTTCCATG	GTATGTGATC	CTACTCAGGC	CTCTACAGCT	TTATCATTCG
216181	TGTTCTCCCC	AGCCTGTCTG	GCTGAGAGTA	TATACTCGAA	GAGCAGAACT	AAAATTCCAT
216241	CCAGCTTCTC	ACTCCTAGGT	CCACTACACA	GCTGCATCCT	GCAGACTTTT	ACCTCAAGCA
216301	ACCCTCCTGC	GTTCTTGCTT	CCTTCCATCA	TAGTTGTAAC	CATCTCCTCT	ATTTGCAAAAT
216361	ACTATCTGCT	GATCTCTCTC	TTCTAGACTG	GTTTCTTTCA	ACCTTCTTCC	CACCAAAACC
216421	AAGTTAGCTT	GCTAAAATAA	AGATGGCGCA	TTTTTACTCA	CCCGCTTGAG	AATTTTCAAT
216481	GTGTTCCCTC	ATGCTTACAG	AGTAAAGCCT	GACCTCTTTA	TTGCATGAAT	ACAAAAGTTC
216541	TTAGCCATCT	GGCCCCAACC	TTGTTCCACT	CAACTCCCCC	GTGCAAGCAT	GGCTCCAGTG
216601	GCACTGGACA	TTGGCTGCTC	TCCACATAGA	TCTGCACTGC	ACTTCCCTCT	GGCTCTGCTC
216661	CCGTTAGTTT	ATATGCCTGG	AAAGTCTTTT	GCCCCGTGTC	CTTGTGCCAA	AATTCCATCT
216721	ATCCTATTGC	ATAGCTTATG	TAAAAACTTC	CTAAACCTTT	TTTTTTTTTT	TTTTTTTTTT
216781	TTTTTTTTTT	TTTTTTGAGA	CGGTGTCTCA	CTCTTCCGCC	CAGGCCGGAC	TGCAGTAGCG
216841	CTATCTCGGC	TCACTGCAAG	CTCCGCCTCC	CGGGTTTACG	CCATTTTCTT	GCCTCAGCCT
216901	CCCAGTAGC	TGGGACTACA	GGCGCCTGCC	ACCATGACCG	GCTAATTTTT	TGTATTTTAA
216961	GTAGAGACGG	GGTTTCAAGC	CAGGATGGTC	TCAATCTCCT	GACCTCGTGA	TCCGCCCGCC
217021	TCCGCCCTCC	AAAGTGCTGG	GATTACAGGC	GTGAGCCACC	GTGCCCGGCC	AAAACCTTCT

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217081	AAATCTTATA	ATTATTATCA	ATTTATCCTC	AGATATACTT	CCACGTACAT	TGTAGTTTTTA
217141	TTATATTTAT	ATTTTACATC	TTTTTTTTTCA	AATTGCAGTT	TGGGACCCAT	TAGTGAGTCA
217201	TAAAATCCAT	TGAGCGGGTT	AAAATCATT	TTTTAAAAA	TGAGTAGAAT	AGAATAGAAA
217261	TTGTTGGAGT	GCATTGGACA	TGGTAAAGTT	AAATATCGAT	TCATGAAACC	ATCGTTTGAG
217321	GCATATGTGT	GTGGTTGTAT	GTACAAGTGT	TTATGCATAT	TGGTGTGTGT	GTTATGTTAC
217381	CCTGTAAAAT	GCATTTCTTA	CTATAGGTCT	CTGTGAAATA	TGTGTCTTGT	TGTTTTTTAA
217441	TGTAGACTTC	CAAAGCCTAC	ATGGCATTTT	ACTAGTGACA	ATCAATTTTA	TTCACATTTT
217501	TCTCTCCAAT	TGGACCAGAA	GCTCTTTGAG	GGCAGGGGCT	GTATCTTACC	GATTTTTGTA
217561	AGTCTTTCAT	TTCTTGCCCC	TAGCCTCATA	TTAGATCATG	CAAGAATGCA	ACTGTAATCA
217621	CAAGAAAATG	CTAATGGGCT	GTGATAGCAG	AGAGTTACTG	TGACAAACTA	AGGGATTTAG
217681	ATTTGGTCAC	ATTGGTGTTG	AGGAGCCATT	GAAGAATCAG	AGAGTGTGTT	ACTATTATTT
217741	GTTAATTTTA	ATTATATCAT	ATTACTTTAC	TGGGGAAAAAT	CTGTGAGCTA	TTTTAGAAAT
217801	AAATACTCTC	ATTGCCCAAT	AATTCTAAGT	CTGCCACCTC	ACTGTTGGGA	CATTGTTTAG
217861	GGAGGCCACG	AAGTCTCAGC	CTTTGATATT	TTTCTTCTCC	TTTTTCTCCC	TTTTTCTTTT
217921	AGGGTCAGCA	TTTGGATCCT	TCATCATCCT	CTGTGTGGGG	GGACTAATCT	CACAGGCCTT
217981	GAGCTGGCCT	TTTATCTTCT	ACATCTTTGG	TGAGTCACTT	TCTCTTAAAT	CCTAATGCCT
218041	CCATTTCTCTG	AGCATCCATT	TTGGCACCTA	CACCACCCAC	ATTCTTCCTA	TATGAAAGAA
218101	AATGTCCTTT	ATCAAATGGA	AGATGATAAA	AAATGTCAAC	GGTTGGTATC	ATTTTTAATC
218161	TAGTCACACA	ACCTGATTAA	CACCTTCCTG	GTGGTCTG	GAAGCCACAC	GCAAAAGGTA
218221	GAGGAGTTGA	CTATTCACAT	GGCACCCACC	GACTTGTGAT	GCAGTCTTGT	CCTTCCATAT
218281	CAAGCACCTT	CTGCAGAATC	TCTACCACCA	CATCTGAAGT	GCCTGCTATA	TGCAGTTAAG
218341	ATGTCAAAGA	TAGTGAAGTA	CATTTTCAAT	GTGTCTTCAT	ATTTCAATTAT	AATTATTATT
218401	TCTGTCCAAG	ATGCCTTTCA	CCTGTTCTCT	ACCAAGTTAA	TCTTGCAAAG	TTCAATTCAA
218461	ATGTTCCCTT	CCCCATGGGC	CCTTCCAGGG	CTTACCCTGT	CAGATTCTGG	CATTCTCTCC
218521	TTTATGATAT	TTCTCTCTA	GGTTATGTTG	GTGTGTAATT	ATTTATTTCT	CCTTTTCTTT
218581	CCACTAGACT	GTGAAATGCT	TGAGGCAAGG	AATCCATTCT	ATGTTTTCAT	CAGTTGGGTG
218641	TCATCATGGT	GCCTGATTTT	TAGCTTTAAA	ATAAAAGAAT	CAGTGAATCC	AGTAATTAGA
218701	GGGGATTTAA	AGAAAAC TAG	TCCTCAGAAT	CTTTTAAACAT	AGAATGTTCT	TCAAATAAGG
218761	AATTCCAATA	ATAAGACAAT	TTTCTACACT	TGATTTTGTT	TTTATAGCCA	AATGGTGTCA
218821	TTAAATATAG	TCCTGGCCCTG	AATGGCTTTC	TCATTAATGA	TGCTAATTAT	TTTGGTTTGT
218881	ACATGTTAAC	CAGGTATTGT	ACAAAAATAT	TTCTTTTGGG	AATCCATAAT	GGATGTATGG
218941	CTTGAATACA	AATAATACTG	TCTCTTGTA	GTGCATTGGA	AATTTTCCC	TGCCACATGA
219001	TTTCATGGAA	GGTTGTTTCG	TGTATGTATG	ACTGCAAACC	TGACTATTCA	GATCTTCCGC
219061	AACAAGACAA	CTTATGTGTG	CATTAAGAAG	TTGCTGCCTA	AAATACATAA	CAGTGAATC
219121	ATTGGAGACT	TTAAAGTAAT	TAATCAGCTA	TGCAATGCCA	CGCTCCTGTT	ATCTCCAGAG
219181	GGCTCTGACA	TTGACAAATG	GTGGCTTTCT	ATTTGAGACG	TAATATCTAA	AAAGCTTTAA
219241	CAGGTTTGTA	GAAGGATTGA	AAGAAAGAAT	GGGAACATTT	AGGTCCTTAA	GGTAGAATAA
219301	GCATTAATTG	ATTAGTGTGT	AGAAGGGAGA	GGCATGCCAC	TTTATCCCTT	CCTCCAGGT
219361	CCCAGTAAAC	AAATCTACCT	AAAACTAAT	TTTATCCCTT	CCTCCAGGT	AGCACTGGCT
219421	GTGTCTGCTG	TCTCCTATGG	TTTATGATGA	TTTATGATGA	CCCCATGCAT	CACCCGTGCA
219481	TAAGTGTTAG	GGAAAAGGAG	CACATCCTGT	CCTCACTGGC	TCAACAGGTA	CAGTGCACAC
219541	CTTGTAACCTG	TGGCCCATGC	AGAGGTCTCT	AGGGCAGGGT	GTGGATCTCC	TCTGAGAGGC
219601	ACCATCTTGG	CTGCTCTAAT	ACTCATGCTG	ATTAGATCTT	TCTTTTTCAGC	CCAGTTCTCC
219661	TGGACGAGCT	GTCCCCATAA	AGGCGATGGT	CACATGCCTA	CCACTTTGGG	CCATTTTCTT
219721	GGGTTTTTTC	AGCCATTTCT	GGTTATGCAC	CATCATCCTA	ACATACCTAC	CAACGTATAT
219781	CAGTACTCTG	CTCCATGTTA	ACATCAGAGA	TGTGAGTTTA	CTTCTATATC	TTCTACGAAA
219841	ATGATAATGG	TAATAAGGAG	AAACAGTTCT	GTGTTACCTA	TTACATTCTG	GCTTTACATA
219901	TAACCATTAA	TTTAACTTTC	ACAATAGCCT	TGAGAGAGGC	ATTGTTATAA	TTCCCTTTTC
219961	ACAGATGTGG	AAACAGGACA	CTTAGAGGTG	AGATAACTTG	CCCCAGGTTG	CACAATACTA
220021	AGTGATAGAG	CTGCTGCAGC	ATCCATATTC	TTAACCATA	TGCTATACTA	CCACACCAGC
220081	TGATTCCAAA	GCTTCTTTTA	GAAATAATAT	TGCTGGGCCA	GGCATGGTGG	CTCATGCCTG
220141	TAATTCCAGC	ACTTTGGGAG	GCCGAGGCAG	GCAGATCATG	AGGTCAGGAA	TGCAAGACCA
220201	GCCTGACCAA	TATGGTTTAC	TAAATATCAT	CTACTAAAAA	TACAAAAATT	AGCCAGGTGT
220261	GGTGGCAGGC	ACCTGTAATC	CCAGCTATTC	AGGAGGCTGA	GACAGGAGAA	TGCTTGAAC

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220321 CCAGGAGGTG GAGGTTGCAT TGAGCCAAGA TCATGCCACT GCACTCCAGC CTGGGCGACA
 220381 GAGTAAGACT CCGTTTCAAA AACAAAAAAC CCAAGAAATT AATATTGCTT TTATCTGGAG
 220441 CCCAGAGTGA TGCAGCTTCT GGCCCTCTTA TCTGAGACAG TGTTCTTTTA GTGTGAAAAA
 220501 GGATGCTAAT TTTCCCCCAA ACAACCCACA GTATCATGGG GGTAAGTTAA TGGCTGGTCT
 220561 GTGTAACTGA CAAATTTTGG TGCTAACGTA TCTCTATAAC TACTCTGTAT AAACCTCCTT
 220621 CCTTCAGAGT GGAGTTCTGT CCTCCCTGCC TTTTATTGCT GCTGCAAGCT GTACAATTTT
 220681 AGGAGGTCAG CTGGCAGATT TCCTTTTGTC CAGGAATCTT CTCAGATTGA TCACTGTGCG
 220741 AAAGCTCTTT TCATCTCTTG GTAAGGATAA GCGTGTGGGC CCATTTAACC AATCCCTTTT
 220801 CTGCACATGG TCTCAGAGGG TTCCCTGACA GCATGTCCTC ATTGCCCAGG GCTCCTCCTT
 220861 CCATCAATAT GTGCTGTGGC CCTGCCCTTT GTGGCCTCCA GTTACGTGAT AACCATTATT
 220921 TTGCTGATAC TTATTCTTGG GACCAGTAAC CTATGTGACT CAGGGTTTAT CATCAACACC
 220981 TTAGATATCG CCCCCAGGTA AGAGCTCTAC CTGTTTTTTC CCCTCCTCCA GACCCCTCCA
 221041 GAGGTGTTAG ACCTCAGTGG TCGCCGTGAA ACTCTTTAAT GTTACTGACA TTGACTAAT
 221101 GGCAGAATGA CAAATAACTA CAAATATCTG TCTGTGGCCA TTTTGAAGAC AACAAATGTG
 221161 GCATTTTTAG AACACAATT TCCAATCTTG GCCAGTAATC ATTTTGACAA AAACCTTCCC
 221221 AAGCTTCCCT AACAGAGATT GAAGTGTGTA TGCTGGGAAA AGGCCACAC ACAGGTGATT
 221281 TGGAAAAGTT TCCATGGTGT TGTTCATATT AGCTACCACA TATATATATA TATATATATA
 221341 TATATATATA TATATATATA TATATATATA TACAGTCACA ATAAGCCAGC TCCTGTGCCA
 221401 AGACTTGCCA TATATCAACA CATCTAATCC TCACAGTTAT ATTAGGTAGG CCCTATTGTT
 221461 ATCCCCATTT TATAAGGGAG AAGGCTGAGG CACAAGGAGG TTAATGGTG TGACTATGGT
 221521 CACATAAAGG CAGAGCCAGG ATTTGGACTG GGGGAGTCTG GCTTTGGAGT CTGTGCTCTG
 221581 CCCGTTGCAC AAACCTGGCTT CTACACTGAG CAGCCAGGGT AAAGAAACGT GGTTCCTCAGA
 221641 GAGACTGCAT TGCTCCCTGG TTATTGACTT GGTAGATTGG TAATTTTCAGG TTTGGCAAAT
 221701 AGACATTGCC CTGAATGTCT TTAGGTGAAT GAAAAACTGC ATTAAGCAAA ATGACTTTGC
 221761 CATTAGAGCT GAATTGCATT AAAGTTGAGT TGCTGCAGAA GCTGTAGGTG GCTTTCTATA
 221821 TAAAAATCATT TATAAAATCA TCTTCCATA GATATGCAAG TTTCTCATG GGAATCTCAA
 221881 GGGGATTGGG GCTCATCGCA GGAATCATCT CTTCCACTGC CACTGGATTG CTCATCAGTC
 221941 AGGTGGGTC AGTTTATTGA ACATCTTCAA GTGGCAGGTA TTGTTTTAGG TGTTGGAGAT
 222001 ACACACGGTG CTCTAAAGAT CTGGATGGCA ACACAATTAC TCTATTTACA TGAGCCTCTA
 222061 AATCAGACTC TGGTAGGTCA GATTTCCAG AGGAAGAAAA ATATAAGCTT ATTTTCTCAA
 222121 GATGAATAGA TGTTAGATTG ATTAATATGA GCTGTTCCGG TGCAGAAGAC AGCAGTATG
 222181 ACTTCTTAGA GGTACATGAG CATGAAACAG TTCTTAGTTA TGACCAGAAT GAAAGACACA
 222241 TGTCAAGGAA TAGCAAGAGA CGAAGACAGA GGGGCAAAAG AAGATCATGA AGAATATTGT
 222301 CAGACTAATC CAATTTTTAA AAAATCACAA AAGGGAAACA AAGTGTCTTA GGCCAGTTTA
 222361 AAGATAATTT AATGTCTGGA AACAGATCGG CTGTGAGACA TTGCAAGGAG GCTTGCTCGG
 222421 TGTTTGGAAA TGCAGGCTCA TGAGGAAGAT GAAAAGACAG ACCCAGGCAG GGATGGAAGG
 222481 ACTGACTAGA ACCAACTTAC AAAGAGAAGT TTTGTTTTTA CTACATTCT ATGTGATCAA
 222541 GTTCCCAGGT TAATATTTGA CTAACTGCT AGGAATCCAC TGTGACTATA ATGCTGGAAA
 222601 TGAATTAGTA GGGCTTTCTG AGGAGGGTCA CACAGAAGAC CAAAGAGAAC TCATGTTGAA
 222661 TTGAGATGGG TTATAGTGAT AGTTGTCAAC AGCCAATACA GAAACAAAAA AAAACAAAAA
 222721 AAACAGCAAC AACAAACAACA AAAAAAAGAA AAAACAGAGA AGACACAAAC ACAATGCCAC
 222781 AATGCCATTT TAGGCATAAT TTTAAATGAG TAATATTATA TGTTGAAATC CAAATTTTCA
 222841 GAAAAACATT AGTGTATTTT ATTTTGTGTT AAAGAAATAA CCATCTCAAC TCAGAACCCC
 222901 ATGTGCATTT TGGCCATTTT GTTTCCAATA GTTTTATAAA CTTTCTTAAG TAACTACTGC
 222961 ACATTGTTCC TTATATTCTT TGTGATCAAC ATTGCAATAC ACAACTGGGA GGGCTACTAG
 223021 AACTGGTGTA GAAGGAACTT GTGAGATTGA TCATTTTCTC TGTTTTTTTAC ATCTAGGATT
 223081 TTGAGTCTGG TTGGAGGAAT GTCTTTTCTC TGTCTGCTGC AGTCAACATG TTTGGCCTGG
 223141 TCTTTTACCT CACGTTTGGG CAAGCAGAAC TTCAAGACTG GGCCAAAGAG AGGACCCTTA
 223201 CCCGCCCTG AGGACATAAA GTTACAAACT TAAATGTGGT ACTGAGCATG AACTTTTTAA
 223261 ACATTTTTTA CTTCTCTCCA TATTCCTGAC CATAGACTCA GCAGTTCTTA ACTCTGGCTG
 223321 TGTGTTAGTC TTCCCTGGGG AGCCTTTATA AGACACTGAT ACTTGGGACC CACTCCAGAG
 223381 ATTCTGAATG AATTGGTCTG GGGTGGAAAC CAGATACTAC TAATTTTTAG ATACTCCTTA
 223441 GAGGTTTCTA GCATGCGCCC GGGGTTGACA ACAGCTGGAC AAACCTGAAA AGTCAATTCA
 223501 TGTGGCCTTT GAATTTTCTT CATTGGAAAG TACTAAATAA ATAAAAATTC ATGTGAAAAAT

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223561	GATCACTGAT	AAATATCTTC	ATGGTGGGGC	AGGTTATTGG	ATGCAGAGAA	GATCTGCTCG
223621	GAATTGTAGC	CATATGTTAC	AGATCTCAGC	ACCGATCAGA	ACTGTAAAGC	TATAATCCCC
223681	AGAATTAAAG	TTTTTATTAT	TTTTTATACA	TTGTAAAACA	TAGACGTTTA	TTTATGTGAT
223741	TAAATTCTAT	TAAAATTTAC	ATGCTAAAAT	AAAATAGACC	ATTTTCAAAT	TATTTAGATC
223801	CAGATATTTT	CATCAGATTA	AACAGATATT	TATTTATCCT	AGCCCAATTG	CAAGAGATTA
223861	ATGATGAGAA	AATGACCAAT	ACAAGATTAA	ATAAATGAGG	TTAACTTAGA	AATCAAGGAC
223921	AGAGAAGATA	GAACTGGAAA	GCTTGTATTG	TGAGAAGAAT	GAATGTGAAG	GAAGGCAATG
223981	TAGACACTTC	CAGAAGGGAT	AGCAATATAG	TTTAGACCAT	ATAATGAAAA	TTGGAGAGAG
224041	ATGACAGAGA	CACTTTC AAG	TGAAATGACA	ATTTATATGG	GGGAGAAAAA	TATTGAAGAC
224101	ATAACAAGAT	GAGAAAAGGC	ATAGAAATGT	ATCACATACA	AGGCATAGAA	GTGTATCACA
224161	TACAAGAGAA	GTTCTTTTGG	AGCGTAGAAA	AAGATAATTT	AACCTTCTTC	ATATTTTTCT
224221	TACTTTCCCA	AGATACTCAG	ATAGGCAGCG	TCAACTCTAA	CAGGAATTTT	TTTGGCTCCT
224281	AACACTTAAG	ACATATCCTT	TAGTTTGTCT	CCTCACACAG	AACTGATTCT	GTTTGTGCCA
224341	CAACATGTCT	AGAGAAGAAG	TTCCCACCAT	ATTTTAAATC	CTATTAAAAA	ACTGCTTGGA
224401	CAAGAACCTT	GGGCTAATTC	AGCAGATGAA	GAGAATCTCC	TAATGCAAAT	CAATGGGTAT
224461	TTTTTGAGCA	GTTTTTCAGA	AAAACAGAGT	GTCAGGCCCT	GAGGGTGGTA	CTAAGATGAG
224521	AACATTGATT	TTGCCTTCAT	GATATTGACA	ACACAAAGAG	GAAAGGGGGT	TTGCAGAAAA
224581	CTAAAAGAAG	AAGTAGAAGA	AAAAAGAAAG	ACATAGTATA	ATAGGTAGTC	AAATTATGTA
224641	CAGAAAAAAG	AGGAAAAAAA	ACCAAAAAAG	GGTGGGGGAC	AGACAACCCA	ACTAAAAAAT
224701	GGGCCAATGA	CTTGAACAGG	GACTTCATAA	AAGAGAAAAT	GTAAGTGGCT	CCTTAACATA
224761	TAAAAAGATG	TTCAACTTCA	TTAGTCATTA	CAGAAATGAA	AATCAAAACT	ACAATGAAAT
224821	ACCACTATAA	AATTAACATA	TGGATAAAAT	GAAAGGAGAT	GGAAAACAAA	ATGTTGCCAG
224881	ACATGTGGAG	CAACTGGAAC	TTTCATACGT	TACGAATGTG	AACTTTGGAA	AGCTGCTCGG
224941	CAATATCTCC	TAAAGCTAAA	TGTACAATTG	CAGTGACTCA	GACATTTTAC	TTAGAAATGC
225001	ACATATACAT	CCATAAAACA	TGTACAACAA	TGTTTCATAG	AGCACTATCT	GTAATAGCCT
225061	GAACAGGAAG	TTGTCTGTTA	AAAAAAGAAT	GAGTAAATAA	ACCACGGTCT	ATTTGTATAG
225121	CAATGAGAAT	TAACAGACCC	CAATATATAA	TAGATGAATG	GGTCTCATAA	GCACAATATT
225181	GATTAAAGGA	AGACAAAACG	CACATTCTTT	TAAAGGTTTA	TAAAATACTT	TTTAAAAACA
225241	GCTACAACCA	ATCCGTCCTG	TTAAAAATCA	GTGAGCGATT	TCCCTTGTGC	AGGGATGGGG
225301	GTTGTGGCTG	GATGGATGGT	ACTTAAGAAG	TGCTCCTGGG	GTACTAGAAA	TATTTTATTT
225361	CTTGACTTGG	ATGTGTGTTT	ACTTTGTGAA	TATTGTACAT	TTATGATTTG	TGCACGTTTA
225421	TGAATGTAGA	AAATAAAACA	GAAAGCAAAT	TCAAAGTATC	ATCCTTTTGA	GAGCTTCTGC
225481	TCTGACTTCG	TTTTGACCAA	TGGAGCAGTT	GGGAAGGGGT	CTTGGTCCTT	CGGTCCTTTG
225541	CTTTTTTTTT	TTTTTTTTTT	TTTTAGACAG	AGTCTCACTC	TGTCGCCCCG	GCTGGAGTGC
225601	AGTGGCTCGA	TCTTAGCTCA	CTGAAAGCTT	TGCTTCCCGG	GTTTCATGCCA	TTCTCCTGCC
225661	TCAGCCTCCC	CAGTAGCTGG	GACTACAGGC	ACCTGCCACC	ATGCCCCGCT	AATTTTGTGT
225721	ATTTTTTAGT	AGAGACGGGG	TTTCACCATG	TTAGCCAGGA	TGGTCTCGAT	CTCCTGACCT
225781	CGTGATCCGC	CCACCTGAGC	CTCCCAAAGT	GCTGGGATTA	CAGGTGTGAG	CCACCGCGCC
225841	CGGCCCTGG	TCCTCTGCTT	TCATGTTCTT	CTTGGTCCTG	TTCTCTCTCC	TCTTTTGTGG
225901	GAACTTCCAG	TATCAGAGCA	GGAAGGAAGG	CAATGGGTCA	ATCGATGCTG	TCAGCTTTTG
225961	GATCAAACCTG	CAAGTTCTCA	AACAGCAAAA	TTAATGAGCT	CAGGCTTTGA	AGAAACCATG
226021	ACCCTGAAAG	CATCAGTTGC	TTCCAATTGC	ATCAGTTGCC	ACGGGTGATA	AGAACAATGA
226081	TGACTCAGAA	TGCCTAGGTT	TTCCCAGCAG	CTTCTCTGAG	GTTTTCCCAG	CAGCTTCTCT
226141	GATTGATTCC	TGACAGATGA	CTTCGGTGTG	TCAGACTTTC	AGGGTATCTT	TCCTTATGTG
226201	ATGGTTTGAG	GAAGAGTTAC	CATTCACATT	CCTAATGGCT	TCAGAATAGA	TGCAATTGTG
226261	AACTGATAGG	AAACATTTCT	AATTCATCTC	CCCTCCCCAT	CCCTAAAGGA	TTGTTTCTAA
226321	CAATAGTCAT	GAAAAATTAAT	TCACTTTTCT	CAAATAGTTT	ATTGTCATCT	ACCTAATGAT
226381	GAGATGACTT	ACTTTTTTCTC	CTTGACTGTT	AAATATTATG	AATTATATTA	ATGTATTTCT
226441	TAATGTTGAG	CTTTCCTTGG	AATATTCTTT	TGATGTACGA	CAGAATTTGA	TTCACATAATA
226501	GTTTATTTAG	GACTTTGGCT	GATGTACTGA	TATATGAGAT	TGGCTCTGTA	TGCATACATG
226561	TGTTTTGTGT	ATCTTTTTTTG	TGTCTGGATA	TGGAGCTTAT	GCTGATTTC A	AAAACAAGAA
226621	AGGAGAACTT	TCCTTTTTTCC	CCATTACTCT	GAAAAAGATT	GACTAGAATG	GAATTTTTAT
226681	AATTGCTGTT	GTTATTTTGA	AGCTTGAAAG	CATTGGTTTG	TAAAAATCAT	GCAGGCTGAA
226741	AGCCATTTTG	AGGAGACTTT	GATAACTTTC	TCAATTTTCT	TCAGTTACTG	GTCTTTTAAG

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226801 GGGTTTTATA TTTTCTTTG ATCAATTTTG ACCATTTATG TTATCTTGGA GGATCATCTA
226861 TTTTACACAC TATTTAAAGT ATATTTGCAA AAATTCAACT GTTTTATCAG GCTATCTTTT
226921 TAATAATATA TTCATTTTAT CTATATCTGA GGTTTTAGCT TCTTTGTACT TCTGACCCAA
226981 TTGCATGTGT GCTTTCTTTC TCCTTCATTA GACTACTTAG TCATTTACTA ATTTTAAGAA
227041 TAGCTTGTCT TTTATTTATT TACTTATTTA TTTTGTAGAC GGAGTCTCAC TCTGTACCCC
227101 AGGCTGGAGT GCAGTGGCGC GATCTCGGCT CACTGCAACC TCCGCCTCCC GGGTTCAAGT
227161 GATTCTCCTG CCTCAGACTC CCGAGTAGCT GGGATTACAG TCATGCACCA CCATGTCTGG
227221 CTAATTTCTG TATTTTAAAT AGAGATGGGG TTTTGCCATG TTGGCCAAGC TGGTCTCAAA
227281 CTCCTGACCT TAGATGATCT ACCCACCTTG GCCTCCCAA GTGCTGGGAT TACAGGCATG
227341 AGCCACTGCG CCCAGCCCTG CTTGTCTTTT TATTTTATAT TTGATTAGCT TTATCTTTTA
227401 TCAAGCTTAT GTCCTATTTT CTTTGTCTTT ACTTCATATA AATTTTGTGT TGGATAGTTT
227461 ATTTATTTT CATTTAATTA TGAAACAGGT TAAAGCTTAG AGGAAAATTG CTCCTCTAAG
227521 TCCACTTTTG TGGGCAGATT ACATTTTGCT GTGTTGTGCT CCCAAATTCA TTGTTCTTTT
227581 AATGCTTTAT TTCTCAAGTT AATAACCTAT ATAGTAAAA AGTGGCTGTT GACTCTCAGC
227641 TTTTTTTTTT TTTTTTTTTT TTTTTTTGTA GATACAGGGA TCTGTCTGTG TTGCTCAGGC
227701 TGGTCTGAAA CTCCTGGCTT CAAGGGATCC TCCTGCCTTG GTCTCACAAA ATGCTGGGAT
227761 GACAGACATG AGACACCATG CCCAGCCATG TCTCTCTCCT TATATATAAT AAGAAAACAG
227821 ACACACTGAG GCATCCTATC ATCTCACTCT TGGTTTCACT ACTGTTCTCT GGAAGTTTTG
227881 CTCTGACCTT TTGCAGTTAA TGTATTAATT TTGCATTGAG TAGTTTCCAT AGAAGAATTA
227941 TAGCATTTGC ATTCTGTTGG GTATTATACT TTTCACTGTT ATTTGAACAT AATTTGAGGG
228001 CTGAAACCAA GATGAGGCAA GTGAGGTGCC CAGGAAGCAA TATTTAAGGA GGCATCCTTT
228061 CTTAGGCTCA TGCAAGAACA GAATTGGCAC ATGAGAGTGA GTGCCTCCTT AATTTTGAGT
228121 GCTGGACACT TCTTGCTCAC TTAGCATACC CCTGGACAAT GAAGTGTGTT TTGTTTGTGTT
228181 TTTTCATGTC CATCCTTTAT CTTTCTTCAT CTCAAAACAT TTCAATGGAG TATTTTTTTG
228241 GAGCAGTACT TGGATGAGCC TCTGAGTCCC ACAGTAGCTG AGAATTTATT TCATAGTACT
228301 CTTTATGATC ACTGTGGAGC CTTAAAACAT TGTAATATTA ACTTAGCTGG GAACAGAAAT
228361 TTTGTTCCAC AATTTGTCTT ATTCAGAACCA GTATTGACTT CCTGCTAGTC TCTTCTGATG
228421 TCCAATATGA GGAAGTCTAG TTAGCCAGCT ACTTTTTGTA GGAGAGCTAT GTTTAGGCTA
228481 GGTGCTATAG GATTCTCTTT ATCCTGGAAT TCCTTCACCA AGATGTGCCA AGGTGTTAAT
228541 CAATTTCTCT TGGTTTTTGG CTGGTGGTCT TAGAGTTTCC TTCGATTTTG TTTTATTTAG
228601 TGATTGTCCT CAATTTGTTT TCTTTACTAA GAATCTCTCT TCTATTTATC TGTATGGTAA
228661 AACCTTGTTG CCCATCTTTC TGGTTTCTGC TGACTTTTCT TTTTGGACCT TTTACTTTGC
228721 TTTCTCCATG GACTTTTTGG TAGTGGAGGC AGGCCAAACAC TTTCCAAAGT CTTTCTCAAT
228781 TTCCATCAAT TTCAACTTAT TTCCTAAAAT TGCCTCAGAA TGTGCCTATG TCCACAATAT
228841 CCCTCCTTCC ACTTTAGAAA GGAAAGGCAT CCACACTTTA TTTAGGTGCA ATGCCTGAAG
228901 TGTAACACTT TTCTGGTTGT CAACAAAGGA GTACTTCCAA ATATTGGTTT GGGGATAACC
228961 TGCTAATGAT TAACACATTC ACCTTGCTC TTGGTTTGCC TGCTCCCTCT TCTTTTATCT
229021 GCTGTGTGTA TTTTTTTTAA TCACTGAGAA TATGCACAGT ATTGTATGTT TTATTATAAG
229081 AGAGGACTGG CCAGAGTGGG AATGTTCTGA ATTCAGAATA ACTGAAGCAG TACAGGATAG
229141 GAACTCATTC TTTCAAATGA AGCTGGCATA TTTTCCCAGA GCACCAAATT TCAATATATA
229201 TTTAAAAAAC TTGATATGAA TGATACAATA AAGTGGTTAG AACTTTTATT AAAATAAACT
229261 TATGTCATGA AATACTTATT TCAATTATAG TCACTCTTCA TCTTATTTCA TCTTATAACA
229321 TGTTTAATGT TTTCTTTTAT TTACAAAACA ATTTATTTT TGATGAAAAG TTTTAGAAAT
229381 CAAGTTAAAA ATATTCAAAG GAATGCCTAA AGTTTTCAA ATTCTTTTAC ATGTTGTACA
229441 ATCAAAAGAG TCTGAAGACC ATTTAGCTAT CCAAATTGTT TATTTTTAAG CAGTATCCCT
229501 TCTAATATTT ACTATTTATA ATCCTTAAAA ATTTGCCTTA GCACAGGAGA ATTGCTTGAA
229561 CCCAGGAGAC GGAGGTTGCA GTGAGCCAAC ACAGTGCCAC TGCCCTCCAG CCTCGGCGAC
229621 AGAGTGAGAC TCTGTCTCAA AAAAAAAAAA AAAAAAAAAA AAAAAAGGCC AAAAACAAAT
229681 AAACAAACAA AAAAATCCGC CTTAACATTA TTTGTTTATT AAAAATTTT TTTAATACTA
229741 CTAGTTTCCC TTTCTCTCA GCCCATTGTC ATATTTTGAT TTTTATCACT TGCTTTGTAG
229801 GACATATGAG GTTTTGTGTT TTTTTTTTTT TTGGAGATGC AGTCTCCCTC TGTGCCCCGT
229861 GCTGGAGTGC AATGGCGCAA TCTTGGCTCA CTGCAACCTC TGCCCTCTGG GTTCAAGCAA
229921 TTCTCCTGCC TCAGCCTTCC AAGTAGCTGG GATTACAGGC ACCCACTACC ACGCCTGGCT
229981 AATTTTTGTA TTTCTGGTAG AGACGGGTT TCACCATGTT GGCCAGGCTG GTCTCGAACT

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230041	CCTGACCTCA	AGTGATCCAC	AATCCTTGCC	CTCCCAAAGT	GCTATGATTA	CAAGCATGAG
230101	CCACCTGCCC	AGCCAGAATA	TATGTTTCATT	TTGAGTCCTT	TAACAAAGTC	ATAAGAATTT
230161	TAGGAATTCA	GTTACTTTCT	TGAGAAAATC	TCTGAAAAGA	TGCCAATAAT	TTGTAGCCAA
230221	TTATATTGAT	TTCTCTTTTT	CATATTGAGA	ATTGTTTTTT	AAAAAGTTTG	TATGTGTGAA
230281	GATTTTTGCA	CTGTAGTTAA	AGAAACCACC	TGTGTGTTGG	TTAAGCCATA	AGTACATGTA
230341	TTCAAAATAA	TTGAGGTGGG	GTTACTCTGA	GAATCAAAGG	AAAACCTGAA	GAAACAGGCA
230401	GCCTCAAAAG	GTCTTAGCTG	TAGCAACTTG	CTCCATTGTT	GAAATAAATA	GGCTTGAAGT
230461	TGTATTTTCC	CTCTACTCAA	CATTTAAGGT	CTCAGAAGAT	AATATAATTG	GTGAAATTTA
230521	AGTAAAGTGC	TCACTCTTTT	GCTTTAACAA	ACCCTAGAGA	GCTGGTAGGC	AGAGCCTCAA
230581	CAGACCGTTT	TAGCTTCCAA	AGGGAGTTCA	GGACACCATG	ATTCACGACC	ACAATACATC
230641	ACACATAATT	GAGAAAAGAT	AGTTCCACCA	AATAAAGTTG	AAATGCTGAC	AAGAAGGGGT
230701	AAGAAATCTT	GGAAATAGGT	TTATATAAAA	TTTATTTTTT	CCTTTTTTAT	TGTTATGGAA
230761	TAGGACCAGT	TCTACTTAAG	CCACCCATTT	GCCAAAATAA	AGTGAGAATC	GTTTCTTTTG
230821	GGGACTCCTC	TTTGTAGCTC	CAAGTGCCAC	TAACAATTCT	TAGGACCTGA	GCTATAAGCC
230881	AGGTGATTTT	AGTTAATATG	ATCAATTATT	TCATTTAAAT	GGCTCTAATG	TGCAGAGGGA
230941	ACGGAGCCCA	TCAGCATTC	CTGCAGGGAA	CTGCAGTGCC	TTTTATCAAC	TTGAACAGCT
231001	AGCTTTCAAC	TGTTTTGAAA	TCACTTTCAG	GGTGGTCATG	TAGTTGCTTT	TTTGAAATCA
231061	GAAGATGATT	CTGCCTCTTT	TAATATGTGA	CTCCTCAGAT	TCAGAAAGTG	CTCGCTAGTC
231121	TTAAGAGTGA	ATTACCCTCA	GTGGTCCAGC	GCTTATGAAC	CCACATCTAA	CCCTATCCCC
231181	TGGGGGAACT	ATCAGAGAAA	TTGGTGCCAT	GGACATAAGA	GGAAGGCACA	GTGAAGCAGA
231241	GAGCCCCGCA	TGATGAAAAT	CAGTGGACAG	CATCATTATT	TACAACCTTG	TAATCACCCA
231301	GGAGCATGAA	AATCCAGGCC	AATCTGGCAC	CATGAGCTCT	AATTTTTGTT	GGAGTTCTTG
231361	GAACCGATT	TGATGAATGA	CTGTTTAGCC	ATTTTAGAGT	GTGGCATAAC	TGGCTGCTGG
231421	CATACAGAGG	TTGGATGTAA	ACGGGCCCTT	GCCCTCTCTT	ATGAACATAG	ACAGGAACTA
231481	AACTGTGTCA	CATAGGTTCC	AAATGGTGCC	CTGAATACTA	TTTACAATA	AGGTACAATG
231541	AAATTGAGTA	AGTCTTTTCC	TCTTTTGCAG	ATACCATCAT	TATTCATATA	TTTCTTCAAA
231601	GTTAACTATT	TGTATTTGGT	AATTTTTAAT	AGAAATGTAA	TAATTGCTTC	TAAGTTTAG
231661	TCTTTAGTCT	TAAGGTTGAT	GCTCTCCATG	TCCTTCCAAA	AAAAGGTATG	TTGCTTTTAT
231721	TATATCCTCG	CCTTCAGATG	GGATTATTCC	ATTTTGTCT	TTGTTAATAT	ATACTTTGAG
231781	CCACTTTTTT	TGTGGCTCTG	GGTGAGATGC	TATAGGTACA	ATGACAAGTG	ATACGTGTGT
231841	TGTCCCTGTC	ACAAAAGTGG	ATAGCCTAAG	TGGTGACTTT	TACCTCCACT	CCAAATATAT
231901	GTATCACACA	CCAGCCGTAT	GCCAGGCACC	ACTCTAGGTG	CTAGGGATAC	AGCAGTAAAC
231961	AGACAAATGC	AACCCCTGCC	CATGTGAAAG	AGAATAAGAC	AATAAATAAG	TAAAGTGCAT
232021	GTTATATGGA	GGTGGCAAAT	GCTAAAAAGA	AAAATTAAGC	AGGCAAGAGG	ACTCATTGAA
232081	AAGATGACAT	TTGGGTAAAA	GCCCCATGAT	ATATGTTCTA	TTGGTTTTAT	TTCTCTGGAG
232141	AGCCCTGACT	AATACACAAT	GACTTTGAGA	AGTTACTGGC	TTTTGATTTA	TCACACTATT
232201	CGGAGTGCTG	AGAGCCTTCT	TAGTGTGTAT	TCAGTGTTTT	AAGAGAGCTT	GTGGATGAAT
232261	AATAAATAGG	ACAAAATTTA	TCCAACTTA	AGCCTTGCTT	TAGGTAAAAAG	GGCTCCTCTT
232321	ACAAGGTAGA	AGGTTATTAT	TTGACATTTA	AATCCAAGTG	AAGACTAATA	AGACTAATTA
232381	ATTAAGAGTT	TTTAAATCAC	AACTGCGTGC	AAAATAAATG	GAAGTGGCAT	GCTCGCCAAG
232441	TGTGCATGAG	TGGTGTGCAT	GGGAGACAGC	ACGAAGCTAA	TCCCACTCAT	CTTGCAAGTT
232501	GCTCCATTTT	TCTCCTAAAA	TCAGTAAGAC	AGAAGCTGGT	CAGATTATCA	AGAGCCCTAG
232561	TTAAACACAG	CAGTAGCATT	TGGAAGGGGT	TGCTCTCATT	AGGCAGTGCC	TGACCACAAC
232621	AAGAGATGAA	CAAGCCCTGT	ATCTGAAGCC	ATCATGCCTA	GTTATGGTCC	CCGACTGTTC
232681	ATGATGCCTG	GAAGGGAGGC	CCCCTGCACC	CTAGAAAGCT	GGGTGGGTTT	TACTGTCTGC
232741	TTTACTGCTA	AAAACCTCT	TCTTTGGATC	TGGACTTTAC	CTCTATCTGA	TTTTTTTTTC
232801	TAATATATGA	TTTGGCACTG	AGTCTGTAC	TGCTGCTAAC	TCAGCAGTTC	TAGGGTCATT
232861	GCCCCATTGC	CTCACAGAAA	GAATTTCTAT	GCTTCCAGCA	TCTCTCTCTC	TTCATTATAC
232921	TTTGATTTCA	GCATTGCTAT	TTTTTCTCTT	GGGTGTTGCA	GCTCTCTCTC	TCCTTCCCAT
232981	GTCTTGTTGG	TTTTCTGCTA	ACTCCTGCTT	TTTTTCTTTT	TTTTTTTTTG	AGACGGAGTC
233041	TCGTTCTGTC	ACCCAGGCTG	GAGTGCAGTG	GCACAATCTC	GGCTCACTGC	AACCTCCGCC
233101	TCCCGGGTTC	AAGCTATTCT	CCTGCCTCAG	CCTCCCAAGT	AGCTGGGACT	ACAGGCGCTC
233161	ACCACTATGC	CCCACTAATT	TTGTATTTT	TAGTATTGCT	GTCATCAATC	CACATGTCCA
233221	GAAGCACCTA	GAAACTCTAA	TTCTTTGTAG	GTATCAAACC	CTAGGACTCT	TTCTCTAAT

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233281 CACAATATAT AATCCCTGAT TCCCAAACAC GGTCTTTTCA TATACATTTT CCACTGTACA
233341 TACTTTCTGA CCTGGAAAGC TCTTACACAA ACACGCCCTC CCCTAGGAAG CTTTATAAAA
233401 TGTTCCAGG AAGAATCAGT CACCCAACAG TGTCCTTGTC ACATCTTAGG TTCTACACCT
233461 TTATTTGTTC TATCTGAATG TAATCTCCCA GAGGGTGTTA TCATCTTTTT TTTTGAGATG
233521 GAGTCTTGCT TTGCTGCCCA GGCTGGAGTG CAGTGGCATG ATCTCGGCTC ACAGCAACCT
233581 CCACCTCCTG GGTTCAAGTG ATTCTCCTGC CTCAGCCTCC TGAGTAGCTG GGATTACAGA
233641 CGTGTGTCAC CACACCTGGC TAATTTTTGT ATTTTGTAGTA GAGACAGGGT TTCACCGTGT
233701 TGGCAAGGCT TTCCTCGAAC TCCCAAACCTC AGGTGATCCA CCCACCTCAG CCTCCCAAAG
233761 TGCTGGGATT ACAGGTGTGA GCCACCATGT CCAGCCCCAT CTTTTCTTT TAGTTTAGTT
233821 CTTAACAAAT AGTCTGACAC AAAGTGGATA TAACAATATT TTGAATTATG AATAACTAAA
233881 TGAATATTTT CAGATTTTCT GGTGCTCTCA AAGTTTTATG TTACAAAAGA AAAACAAGTC
233941 TAAAATACCT GCCTCAAGTT TTTATCTGTA CTATGATTTC AAACCAAATA AAAAACAGGT
234001 GGGGTAAAAA CTGAAACAGG AAATACATAT AACTGAAAAA TTTTGGTATG TTAGTATGAT
234061 AATACTAGGT CATTTTTTCT GTTTCCCCAA CTTCATTTTC TATAGCAATA AAAAGAAACA
234121 AGTAAATGTA TGTTAATTTA ATTTAAAAGA AGTAGTCTAC CATCTCTTCT GTTAAAAAGA
234181 AAAAAGTATT TTAATAAATT ATCTCTGGAA GGATACACAG GGAACATTGC TCTGGTTTCT
234241 TCCAAGAGAG AAATGAGGAA CTAGAGAGCA TGGCCAAGTG GGGTTTTGCT TTTGTTTTTG
234301 TTTGTCTATC TGTTAGCTTT TTATTATTTT CTTTGTAGG TTTGAATTTT AAACCATATA
234361 AATCTGTTAC ATGCTCATAA TAATAAGTTT AAAATAAAAC TTTTGGCTGG GTGCAATGAC
234421 TTACACCTGT AATCCCAGCG CTTTGGGAAG CAGAGGTGGG AGGATACTTG AGGCCAGGAA
234481 TTTGAGATCA GCCTGGGCAA CATAGTGAGA CCCTGCCTCT GTAGAAATAA AAAAAATTA
234541 GCTGGATATG GTGGTGCATG CTTGTACTCC TAGCTACTTG GGAGGTTGAG GCAGGAGGAT
234601 CCTTTGAGTC CAGGAGTTTG AGGCTGCAGT GAGCTATAAT CACCCACTGC ACTATAGCAT
234661 GGGCAATAAG GTGAGAACTT GTCTCAAAAA AAAAAGGGGG GGGGGAAACA AATAAATAAA
234721 TATAAACAAA ACTTTTGTTT CAAAATATGT AATATTTAGC ACTAAAGAAT TCTGAATTGT
234781 AGAGCTAAAA AGTACTTAAA AGTTAATAAC TATTGTCTCC TTTAAAAGAA TTGTTATCAA
234841 AGTATAATTT TTATCCAGAA AATCATCCAT ATCAGCAAGC TAAACTTTCT CAAAATGACA
234901 TATCCATGTA ATTAGCTCCC AGGTAATTAG CAGGCAGCCT CTACTCAGT TGAGTATTCC
234961 TAATCTAAAA ATTGGAAATT CAAAATGCTC CAAAATCTGC AACTTTTGA ATGCTAACAT
235021 GATTCTCAA GGAGTGCTCA TGGAGTATT CAGATTTTGG ATTTTGGAT TTGAGTACT
235081 CAGTAATATG CAAACATTCC AAATCTGAAA AAATCTGAAA TACTTCTGGT TCTAAGCATA
235141 AGGGATACTC AACGTGTGTT AGCTAATTAG ACCCTTCATG GTCTCTTCTA GACCTCAGCT
235201 TCTTCAAGGT AACCTCTATC CTCACTTCTA ATAGCATGAA CTTTTCTGTT TTAGAATAAT
235261 TTGGATTTTC AGGAAAGTTG CAAAGATAGT ACAAAGACAG TACAGGAGAG TTCCCATATA
235321 TCTTTCACCT AGCTTTCCCC CATTGTTAGG ATTTTACATT ATTATGATAC ATTTGTCAAA
235381 TATAAGCAAC TCACATTGAT ACATGAAACT CTATTAACCA AACCTTAGAC TTTATGTGGA
235441 TTTCACCACT GTTTCCACTA ATGTTTTCTT TCTGTTCCAA GGTCCAATCT GGAATACCAC
235501 ACTGCATTTT CTTGTCATAT CTCCCTAGTC TTTTTTGTG TGTGACAATG TCTCAGTCTT
235561 TTCTTGCTTT TCATGACCTT AACAGTCCCTG AAGATCATTT GCTTTTTTTT CATAATTACA
235621 CCGGAGTTAT AGATTTTTTG AAATAATACC ACAAGGGCAA AGGGCCCTTC TTGTCACATC
235681 ATTTTAGGGA GAACATGATA TCCACATGAC ATCACTGATA TTAACCTTCA TCATGTGGTT
235741 TAGGTAATGT TTCAGGTTTC TCTACTGCAA AGTGATTTTT TTCCCTTAAT TTAGCCCACC
235801 TGAACCTATC AATTTTGTTT TCTTCCATGA CTAATACTTT TGTTATTATA GCTAAAACTT
235861 CATTGGGGCC AAATCTTAGA TCATGTAAAT TTTCTTCTAT ATTTTATTCT AAAAGCTTGT
235921 AATGTTTGAT ACATTCTAAA AGATGTAATG TTTGATACAT TACATCTAGT CCTTTGATTT
235981 ATTTTLAGTT ACTTTTGAT AAGGTGTGAG AGATGTCTCC AGTTTCACTT TATTAACACA
236041 TTGTGGTGTT CCAGTACTAT TTGTTGCTAA GACTATCTTT TTTCCATTGA TTACCTTTGC
236101 CTTAGTTGGC AATATTTTTG TTGGTTTATT TCTAGACTGT TTATCTCATT CCACTGATTT
236161 GTGTCTATCT TTTTGACAAA ACTGTTGATT ACAGTAAGCT TTGAAATAGT TCATTTTTTG
236221 TGTCAACTTG ACTGAGTCAG GGGATAACCA GCTATCTGGT TAAACATTAT TTCTGGCTGT
236281 GTTTGTGAGC GTGTTTCTGG ATGAGATTAG CCTTTGAATA GGTGATCCTA GTAAAGTAAA
236341 CTGTCTTTCC CAGTGTGGAT GGCATTATGC CACCTGATAT TCAGGGTCTG AATAGAAGAA
236401 AAGGCAGAGG AAGGGGAAT TTGGGCCTTT TTTTCTGCCT CACTGCTTGA GCTGGGACAT
236461 CTCATCTGGT CTCCTGCTCT TGAAGTGGGA TTTACATCAT CAGTTCCTCT GGTCTCAGG

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236521	CCTTCAGATT	CAGACTGAAT	CATACCACCA	GCTTTCCTGG	GTCTCCAGCT	TGCAGATTAC
236581	AGATCATGGG	ACTCCTCATC	TTCCATAAAT	GCATGAGCCA	ATTCAGTCTA	TGTCCTTGAA
236641	AACTGCCCCA	CTGCAGATTA	AGGCTTTTTT	CCACTAGGTG	AAATAAAGAA	GCTTGTTAGA
236701	CAGATTTCCC	TTCATCCAGT	GCCCTCTCCT	CTTTAAGTTA	CAACACATTG	GCTACACCTA
236761	AGTGCAGGGG	TGGGGATGAG	GGTATAGTCC	TCTTGTTTGC	TGAGAAGAGA	ACTGTATTGG
236821	GAAAGCTCTA	GAAGTGTTTG	ATACATACAT	AAACAAGGCA	TGGTTTTTGC	ACTTAATTTC
236881	ACATTACATT	TTTCCCAGAA	AAAAAGGAAT	GTATAGGCAT	CACGTAAGTG	TACTAGCTGG
236941	AGTCATTCTT	CCTGATTATC	AAAGGTAAAC	AGTTATTAAT	CCTATACCAA	GATGTCAAGG
237001	AGAAGTACTT	TTGGAACACA	AGGAATTCTC	TGGGAGTCCT	TACTACTCTC	AAGCCCAGTG
237061	AAAAAGTTAA	TGAAAAACTA	TAGTACCTTC	CTATAAGCTG	GATGACTAAT	TACCAGGCTC
237121	ATTTAGGAAT	TTGCCTTACC	AAGTAAACA	TAAGGGCAGC	TGAGGTGCTG	ACTGAAGACA
237181	AATGGAGCAT	AGAATAAGAG	TAGTAAAGAA	TGCCAAAAAT	GCTGTTCATGT	ATCCATTGAC
237241	AAAAGGAGCT	ATAAAGCCTT	TAGGTATTTT	CACACTTGCT	CTGTTACGTA	AATGTATGTG
237301	TGTGTGTGTG	TGTGTGTGTG	TGTGTG			

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : C07H 21/04; C12Q 1/68; C12N 15/63, 15/85; C12P 21/02
US CL : 536/23.5; 435/6, 70.1, 325, 320.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.5; 435/6, 70.1, 325, 320.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, DIALOG'S BIOTECH cluster.

hemochromatosis, BTF1, BTF2, BTF3, BTF4, NTP-3, NTP-4, RoRet, butyrophilin, type I sodium transport

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	RUDDY, D.A. et al. A 1.1-Mb transcript map of the hereditary hemochromatosis locus. Genome Research. May 1997, Vol. 7, No. 5, pages 441-456, see entire document.	1-20, 22-77
X	FISCHER, L. et al. Cloning of the 62-kilodalton component of basic transcription factor BTF2. Science. 04 September 1992, Vol. 257, pages 1392-1395, see entire document.	28-33, 71
X	MARGOTTIN, F. et al. Participation of the TATA factor in transcription of the yeast U6 gene by RNA polymerase C. Science. 25 January 1991, Vol. 251, pages 424-426, see entire document.	22-27, 70

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents	* T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
* A* document defining the general state of the art which is not considered to be of particular relevance	* X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
* E* earlier document published on or after the international filing date	* Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
* I* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	* A* document member of the same patent family
* D* document referring to an oral disclosure, use, exhibition or other means	
* P* document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

20 JANUARY 1998

Date of mailing of the international search report

12 FEB 1998

Name and mailing address of the ISA/US
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHENG, X.M. et al. Sequencing and expression of complementary DNA for the general transcription factor BTF3. Nature. 05 April 1990, Vol. 344, pages 556-559, see entire document.	34-39, 72
X	PANTEGHINI, M. Electrophoretic fractionation of 5'-nucleotidase. Clinical Chemistry. February 1994, Vol. 40, No. 2, pages 190-196, see entire document.	52-57, 75
X ---- A	BURT, M. J. et al. A 4.5-megabase YAC Contig and physical map over the hemochromatosis gene region. Genomics. 15 April 1996, Vol. 33, No. 2, pages 153-158, see entire document.	1-6 ---- 7-20, 22-77
A	VERNET, C. et al. Evolutionary study of multigenic families mapping close to the human MHC Class I region. J. Mol. Evol. November 1993, Vol. 37, No. 6, pages 600-612, see abstract in particular.	1-20, 22-77

Form PCT/ISA/210 (continuation of second sheet)(July 1992)*

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest
☒ No protest accompanied the payment of additional search fees

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/17658

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-20, drawn to polynucleotide sequences containing at least one polymorphic site, polypeptides encoded thereby, antibodies to said polypeptides and a method to determine the presence of the HFE gene mutation.

Group II, claim 21, drawn to the lymphoblastoid line atcc crl-12371.

Group III, claim(s) 22-27 and 70, drawn to BTP1 nucleic acids, gene products, vectors and antibodies.

Group IV, claim(s) 28-33 and 71, drawn to BTP2 nucleic acids, gene products, vectors and antibodies.

Group V, claim(s) 34-39 and 72, drawn to BTP3 nucleic acids, gene products, vectors and antibodies.

Group VI, claim(s) 40-45 and 73, drawn to BTP4 nucleic acids, gene products, vectors and antibodies.

Group VII, claim(s) 46-51 and 74, drawn to BTP5 nucleic acids, gene products, vectors and antibodies.

Group VIII, claim(s) 52-57 and 75, drawn to NPT3 nucleic acids, gene products, vectors and antibodies.

Group IX, claim(s) 58-63 and 76, drawn to NPT4 nucleic acids, gene products, vectors and antibodies.

Group X, claim(s) 64-69 and 77, drawn to RoRet nucleic acids, gene products, vectors and antibodies.

The inventions listed as Groups I-X do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Groups I and III-X are drawn to physically different genes and their gene products and each therefore constitutes a separate invention. The lymphoblastoid cell line of Group II is not dependent upon the vectors of any of the Groups I and III-X and therefore constitutes a separate invention. Accordingly, the claims are not so linked by a special technical feature within the meaning of PCT Rule 13.2 so as to form a single inventive concept.

